SkyIPCam 650

Model # AICAP650

User's Manual

Ver. 1.0

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1. Introduction

Congratulations on your purchase of this SkyIPCam 650. The IP Camera allows you to view images and live videos from internal and external networks. With a built-in CPU and Web Configuration Utility, the IP Camera is a standalone network device that delivers high quality videos at a low cost of ownership. The built-in Web Configuration Utility allows any computer that's connected to the network to remotely manage the IP Camera. Combined with the bundled Setup Wizard and IPView Pro software, managing and viewing multiple IP Cameras is simple and efficient.

Instructions for installing and configuring this product can be found in this manual. Before you install and use this product, please read this manual carefully for proper operation of the product.

Package Contents

Before you begin the installation, please check the items of your package:

- SkyIPCam 650
- Camera Stand
- RJ-45 Ethernet Cable
- AC Power Adapter
- Quick Installation Guide
- Installation CD

If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packaging materials in case you need to ship the unit in the future.

System Requirement

Please review the following system requirement.

- **OS:** Windows® 98SE/ME/2000/XP and other OS supporting TCP/IP
- **CPU:** 650MHz or above (2.4 GHz recommended when monitoring multiple cameras simultaneously)
- **Memory Size:** 256MB
- **Resolution:** 1024x768 or above
- **Web Browser:** Internet Explorer 5.0 or above

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Components Guide

This section explains the function of each component.

Front and Side View

1. Internal MIC
The built-in Omni-directional microphone allows the camera to record sound.

2. ACCESS LED
The ACCESS LED indicates the system status with:
Green light on: The camera is powered on.
Green light flashing: The camera is sending/receiving data to/from the LAN port.
Orange light flashing slowly: The camera is in Privacy Mode.

3. PIR Sensor
The Passive Infrared Sensor (PIR) Sensor detects motion of an infrared emitting source which allows you to monitor the target area dynamically. In order to use this motion detection feature, you have to enable the sensor from the Web Configuration Utility.

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4. Camera Lens
To adjust the focus of the lens, turn the lens slowly in either clockwise or counter-clockwise direction until the image is in focus. **DO NOT** overturn the lens in either direction.

5. Flash LED
The Flash LED allows you to capture video images even in dark environments. You can turn on the flash light from the Web Configuration Utility.

6. USB Port
The USB port allows you to expand the storage medium by connecting a USB storage device via the USB port. Please refer to ***Section 7.6.2 Security Setting*** for information about storing image files to the USB device via motion sensor triggers and/or via scheduled settings. You can click on the **Log Display** sub-menu to monitor any activity for the USB port. The Camera will stop the storage and activate the buzzer when the USB storage device has less than 5% of remaining free space.

7. STATUS LED
The STATUS LED indicates the configuration status with:
Green light flashing: The camera is powered on and functions in normal mode.
Orange-Red light flashing: Indicates the camera cannot access DHCP within the network.

8. Privacy Mode Button
Press this button to enter into Privacy Mode. The camera stops monitoring in this mode. Also, you can safely remove the USB storage device from the USB port by pressing and holding this button for 5 seconds until the camera activates the buzzer.

9. LAN Port
This RJ-45 connector is used to connect the 10Base-T Ethernet or 100Base-TX Fast Ethernet network cable (which should be Category 5 twisted-pair cable). The port supports the NWay protocol, allowing the camera to automatically detect or negotiate the transmission speed of the network.

10. DC Power Connector
The DC power input is labeled DC 5V with a single jack socket to supply power to the camera. Power will be generated when the power supply is connected to a wall outlet.

11. Camera Stand
The camera stand allows you to place the camera on a flat surface instead of hanging on the wall or installing on a tripod.

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Rear and Bottom View

1. Screw Hole
The screw hole is used to attach the camera to a stand or tripod.

2. Reset Button
Press the button to reboot the camera. Press and hold the button for 5 seconds will reset the camera' settings to the factory default. Alternatively, you can perform reboot or factory reset from the Web Configuration Utility.

3. Hanging Hole
These two holes allow you to hang the camera on a wall.

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2. Getting Started

Note: *Before using the IP Camera, you'll need to perform the following tasks:*

1. Connect the IP Camera to your network.
2. Install the Setup Wizard.
3. Configure the IP Camera using the Setup Wizard.

Please follow the steps in this Manual carefully to ensure proper setup of the IP Camera.

Caution: *The IP Camera is designed for indoor use only. Direct exposure to sunlight may cause permanent damage to the CMOS sensor. When operating in extremely bright environment, an iris lens or sun visor is recommended to protect the IP Camera.*

Step 1 Align the camera stand with the bottom part of the camera. Then, secure the camera stand with the screw.

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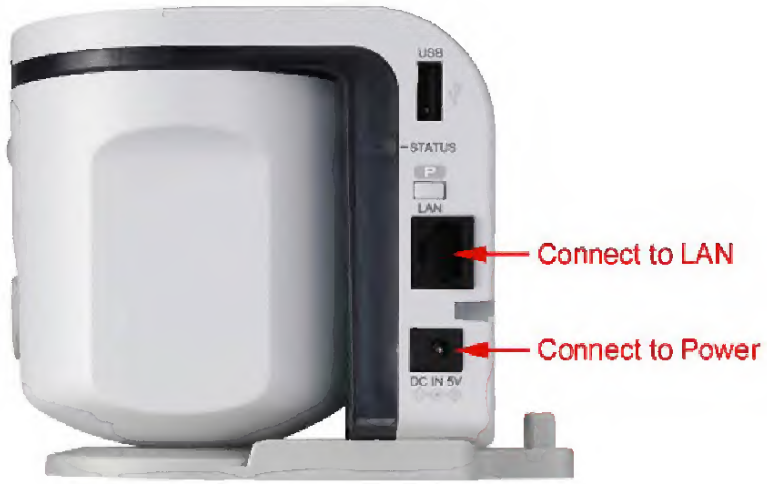
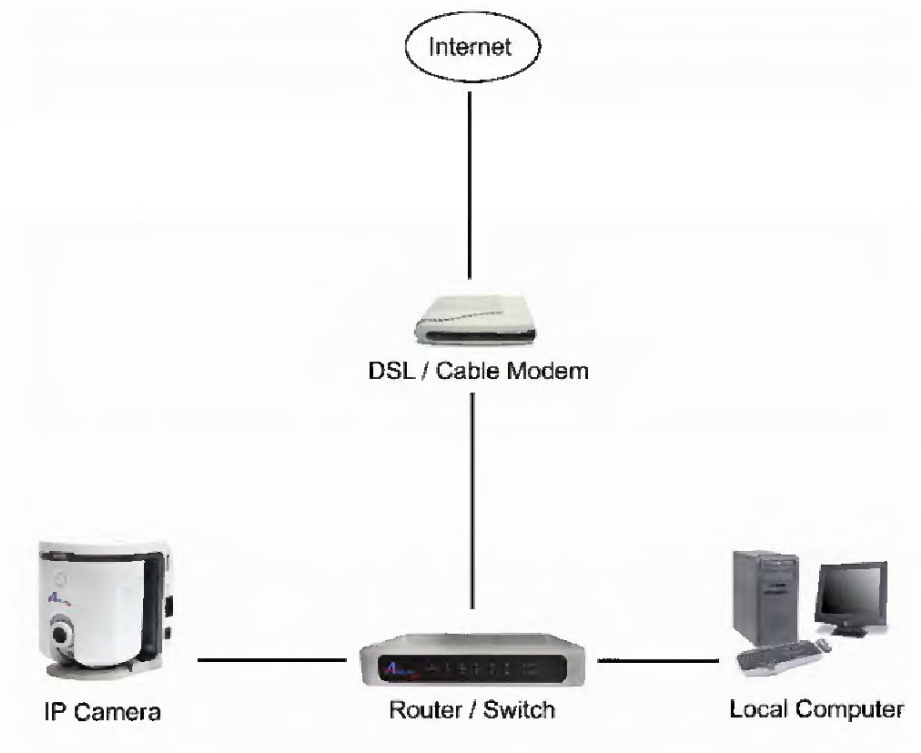
Step 2 Connect one end of the network cable to the IP Camera and connect the other end to one of the **LAN** ports of the router or switch.



Step 3 Power on the IP Camera by connecting one end of the supplied power adapter to the power jack of the Camera and connecting the other end to an electrical outlet.

Step 4 Verify that the LED lights on the Camera are lit. If not, verify that all the connections are secure and try again.



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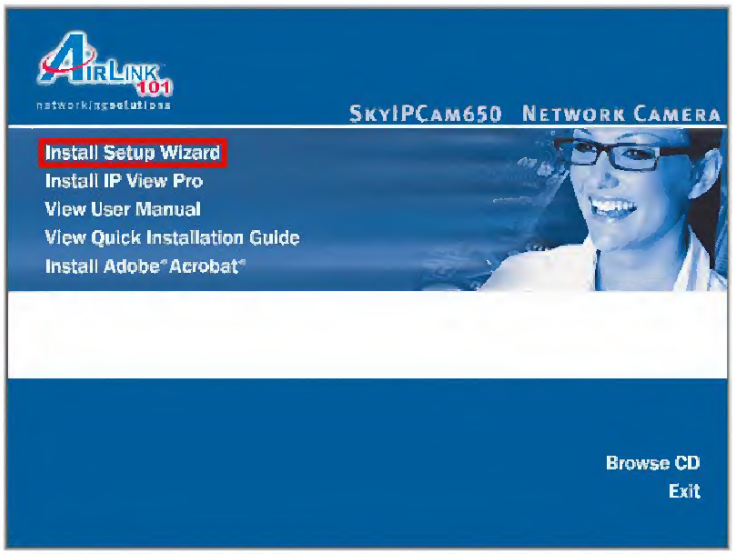
3. Installing the Setup Wizard

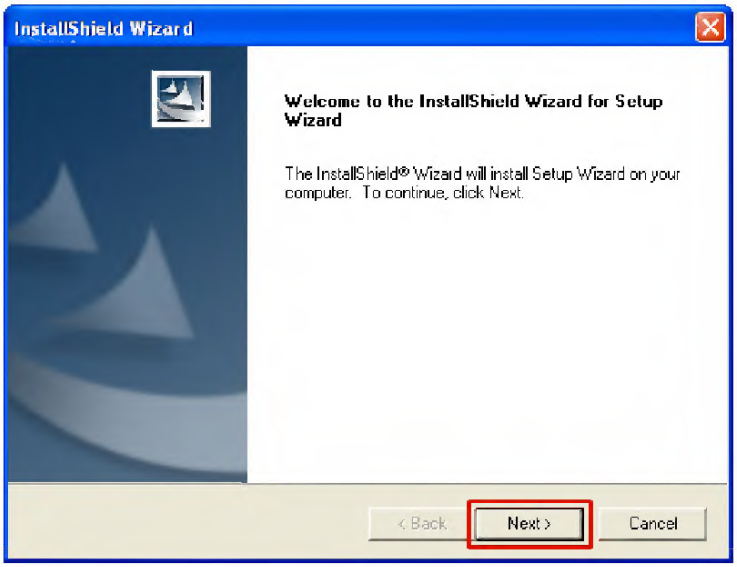
Step 1 Insert the provided CD and wait for the autorun screen to appear.

Step 2 Click on **Install Setup Wizard**.



Note: *If the autorun screen does not appear automatically, go to* ***Start***, ***Run***, *type* ***D:\ Setup\Setup.exe*** *(where* ***D*** *is the letter of your CD drive) and click* ***OK***.

Step 3 Click **Next**.


InstallShield Wizard
Welcome to the InstallShield Wizard for Setup Wizard
The InstallShield® Wizard will install Setup Wizard on your computer. To continue, click Next.
< Back
Next >
Cancel

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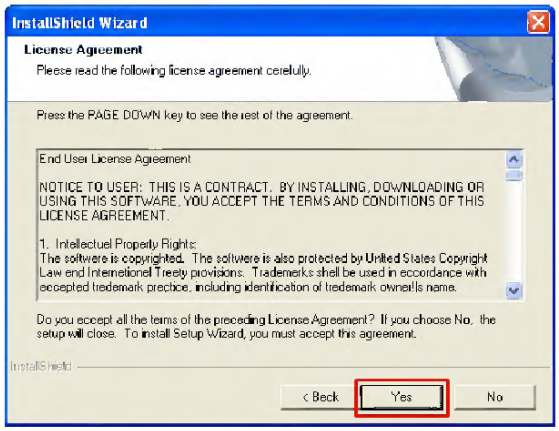
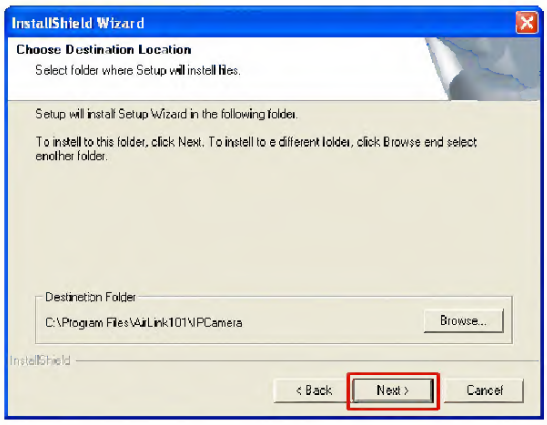
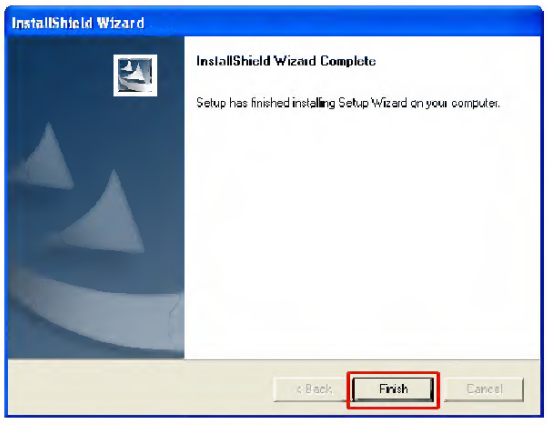
Step 4 Click **Yes** to accept the License Agreement.


InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
End User License Agreement
NOTICE TO USER: THIS IS A CONTRACT. BY INSTALLING, DOWNLOADING OR USING THIS SOFTWARE, YOU ACCEPT THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT.
1. Intellectual Property Rights:
The software is copyrighted. The software is also protected by United States Copyright Law and International Treaty provisions. Trademarks shall be used in accordance with accepted trademark practice, including identification of trademark owner's name.
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install Setup Wizard, you must accept this agreement.
InstallShield
< Back
Yes
No

Step 5 Click **Next** to accept the default Destination Folder.


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install Setup Wizard in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\AirLink101\IPCamera
Browse...
InstallShield
< Back
Next >
Cancel

Step 6 Click **Finish** to complete the installation.



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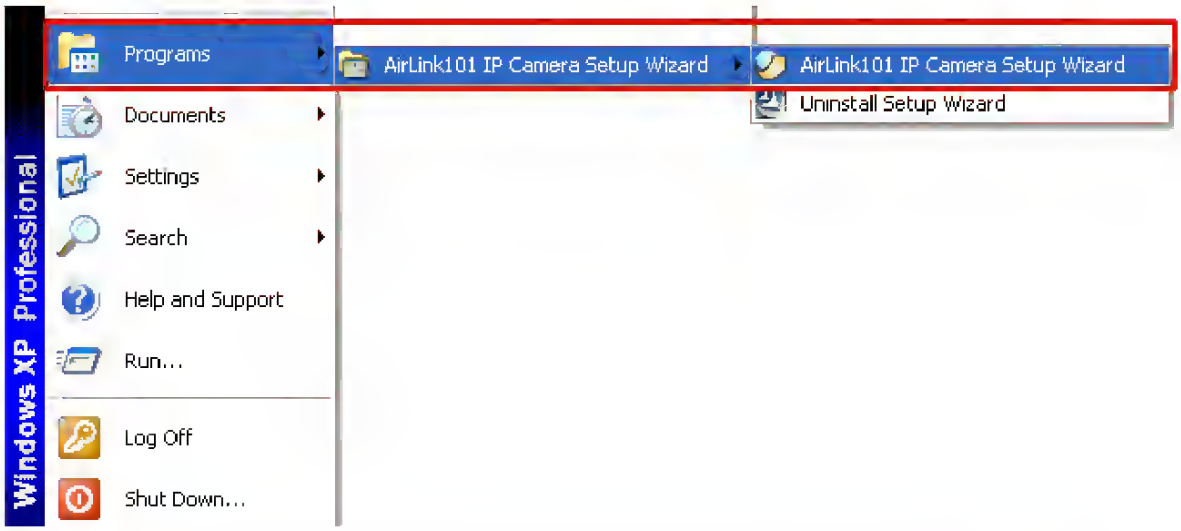
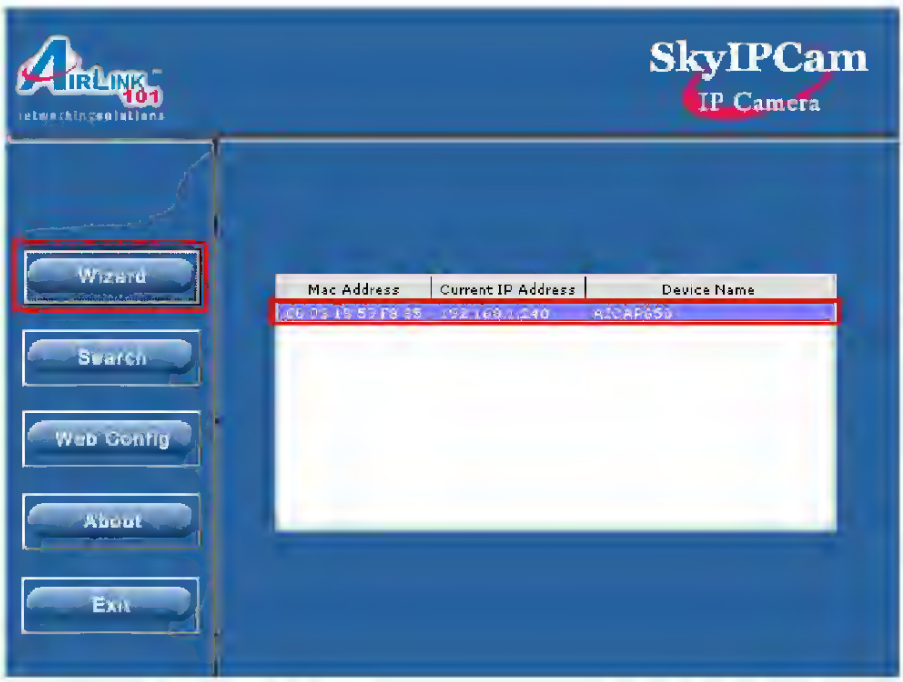
4. Using the Setup Wizard

Step 1 Go to **Start > (All) Programs > AirLink101 IP Camera Setup Wizard > AirLink101 IP Camera Setup Wizard.**



Step 2 Select the IP Camera you want to configure from the list and click on the **Wizard** button.



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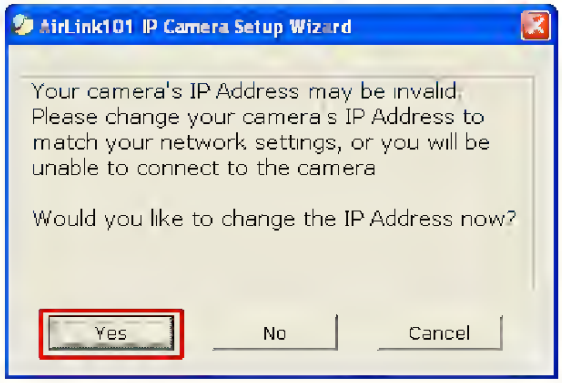
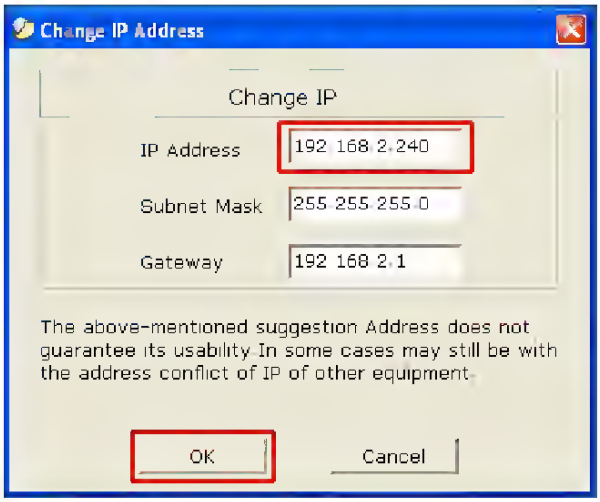
Step 3 If the Camera's default IP address is on a different subnet, the following message will appear. Click **Yes** to continue. If you do not receive this message, skip to **Step 6**.


AirLink101 IP Camera Setup Wizard
Your camera's IP Address may be invalid.
Please change your camera's IP Address to match your network settings, or you will be unable to connect to the camera
Would you like to change the IP Address now?
Yes
No
Cancel

Step 4 Enter **admin** for both the Admin ID and Password and click **OK**.

Step 5 The Wizard will automatically generate an IP address for the camera, if this address is not in use by any other device in your local network, click **OK**. Otherwise, enter an available IP address (ex. 192.168.x.240) and click **OK**.


Change IP Address
Change IP
IP Address
192 168 2 240
Subnet Mask
255 255 255 0
Gateway
192 168 2 1
The above-mentioned suggestion Address does not guarantee its usability In some cases may still be with the address conflict of IP of other equipment.
OK
Cancel

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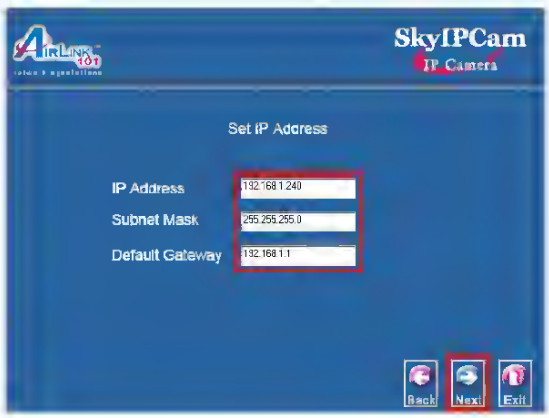
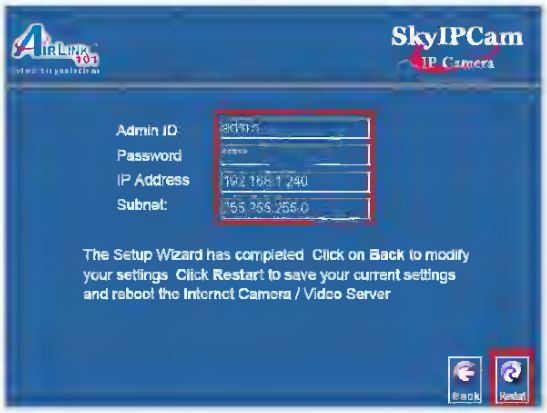
Step 6 Enter **admin** for both the **Admin ID** and **Password** field and click **Next**. Optionally, you can change the password by checking on the **Change** box and entering the new password.

Step 7 If you need to change the Camera's IP address because another network device is already using the same address, you can assign a new address here and click **Next**.



Step 8 Verify that all the fields are correct and click **Restart** to save the settings and reboot the camera.


SkyIPCam
IP Camera
Admin ID
Password
IP Address
Subnet
The Setup Wizard has completed. Click on Back to modify your settings. Click Restart to save your current settings and reboot the Internet Camera / Video Server
Back
Restart

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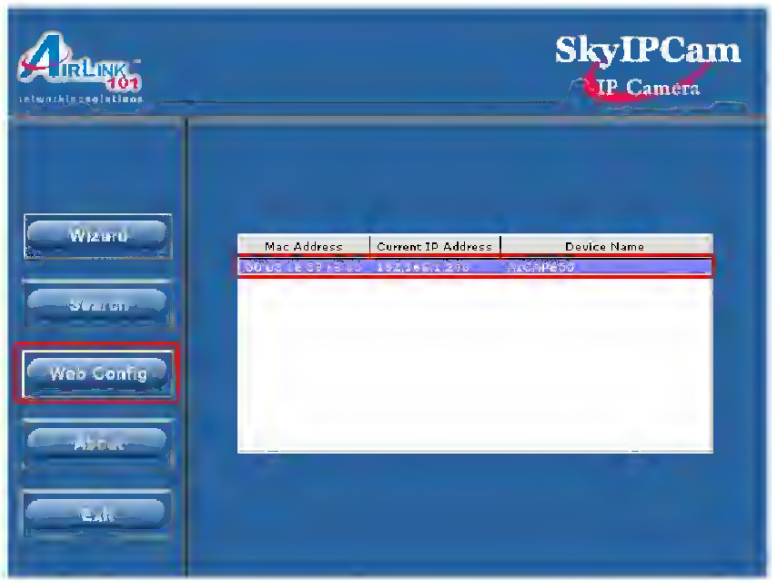
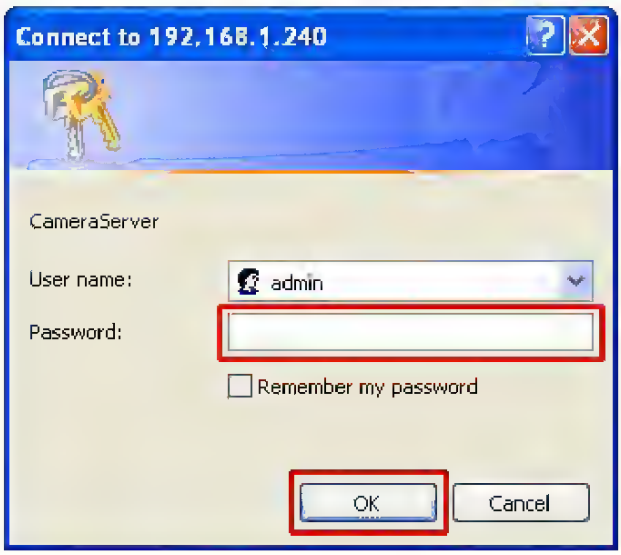
5. Viewing Images

Note: *The following steps describe how to view images from within the same local area network as the IP Camera. To view images from an external network such as the Internet, please refer to* ***Section 8*** *of this manual for further instructions.*

Step 1 At the Setup Wizard, select the desired camera from the list and click on the **Web Config** button.



Step 2 Enter the password for the camera (Default is **admin**) and click **OK**.



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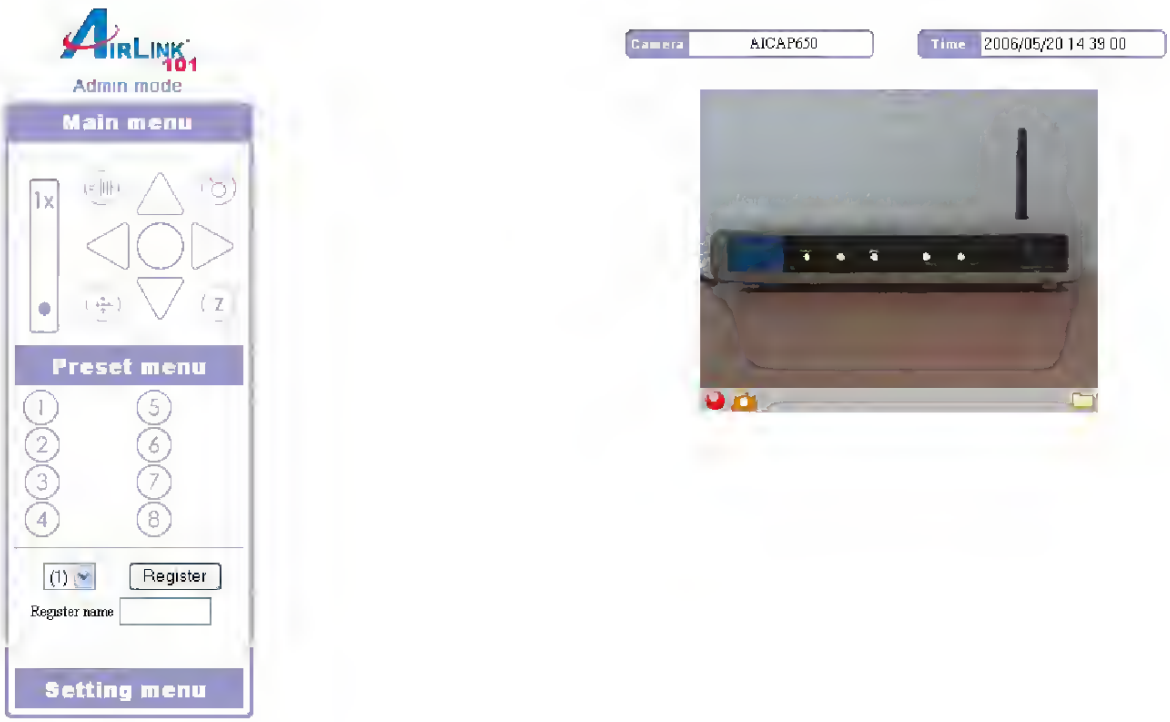
Step 3 The welcome page appears. If you did not change the default password, you will be prompted to do so before accessing the camera.

Step 4 The Main menu along with the live video appears on screen. The IP camera is ready for use now.



Note: *ActiveX must be installed and enabled on your Web Browser (Internet Explorer) before you can view the live videos. For more information, please refer to the next section.*

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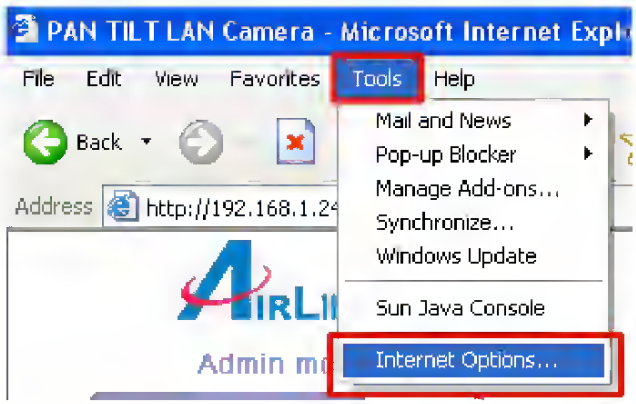
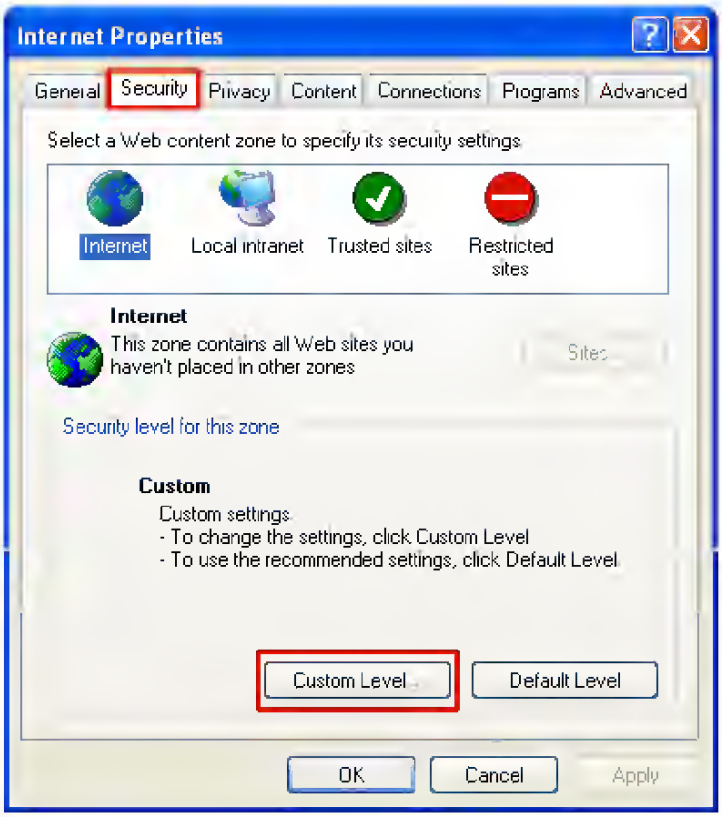
6. Enabling and Installing ActiveX

If no image appears on the web browser (Internet Explorer), follow the steps below to enable and install ActiveX

Step 1 Open Internet Explorer and go to **Tools > Internet Options**.



Step 2 Select the **Security** tab and click on **Custom Level**.



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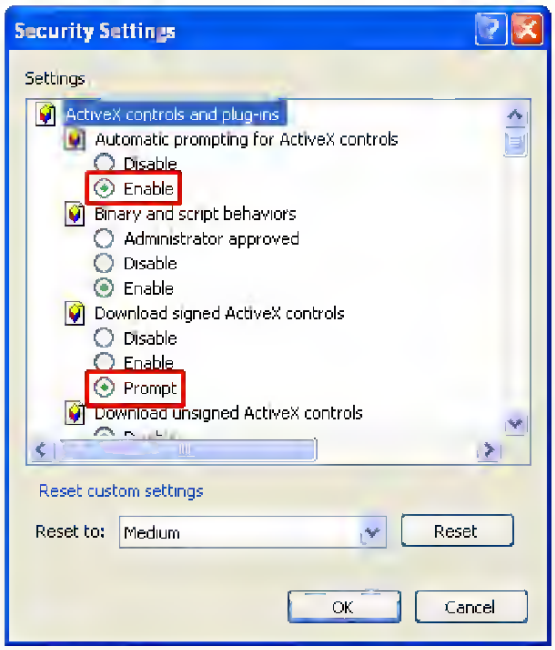
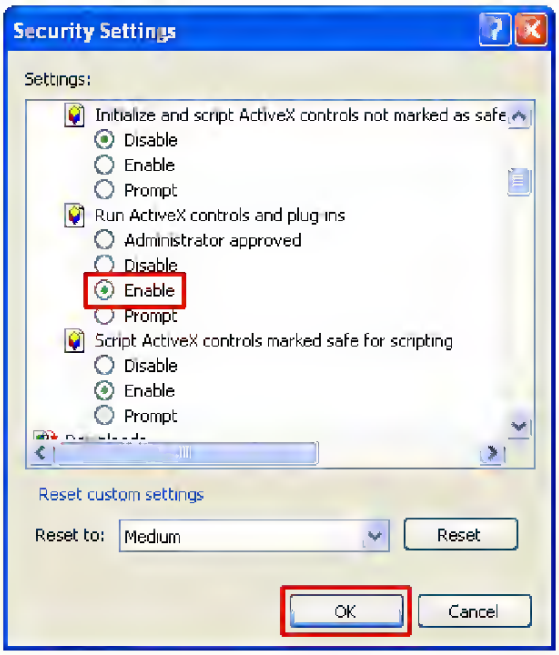
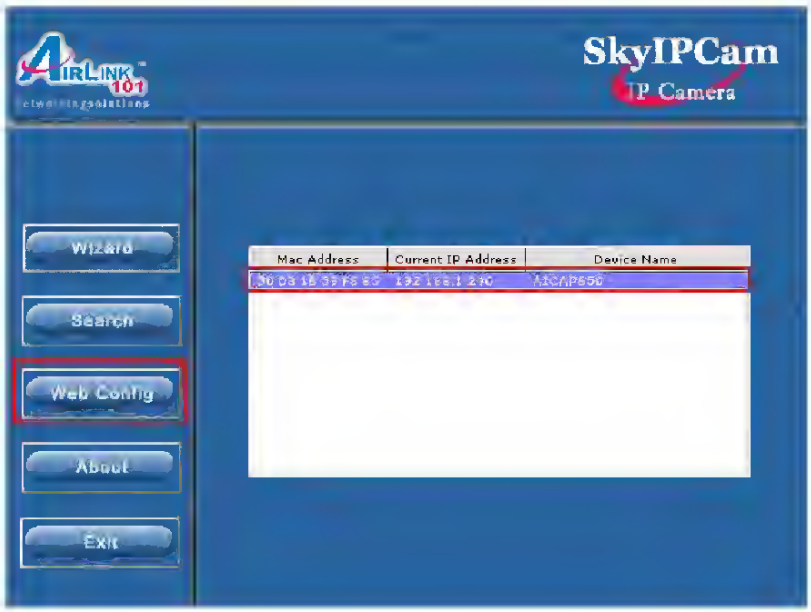
Step 3 Verify the following settings are selected. Click **OK** when done:

- Automatic prompting for ActiveX controls: **Enable**
- Download signed ActiveX controls: **Prompt**
- Run ActiveX controls and plug-ins: **Enable**





Step 4 Close Internet Explorer and re-launch the **Web Config** screen.



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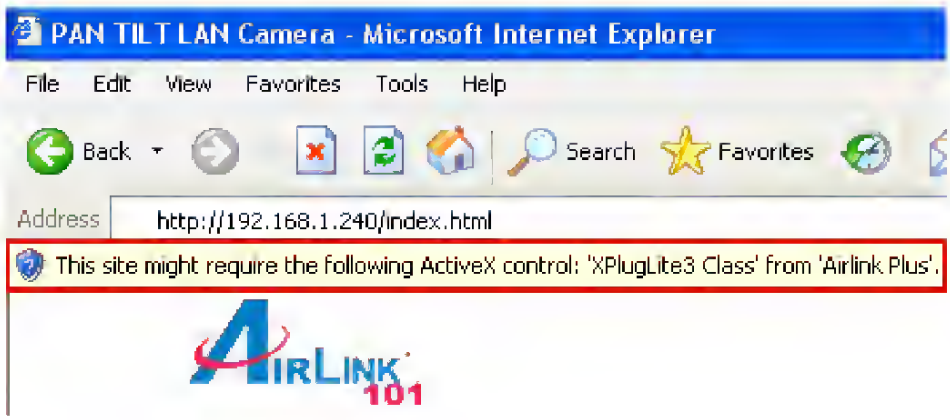
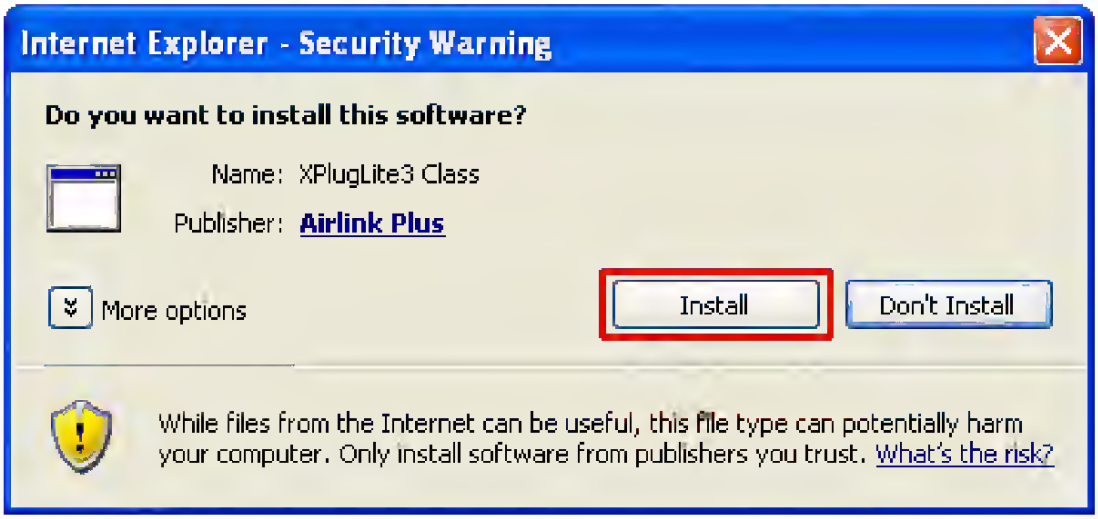
Step 5 Click on the **ActiveX Control prompt**.



Step 6 Select **Install ActiveX Control**.

Step 7 Click on **Install** to install the ActiveX Control.


Internet Explorer - Security Warning
Do you want to install this software?
Name: XPlugLite3 Class
Publisher: Airlink Plus
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

Step 8 After the ActiveX Control is installed you should see the live video on Internet Explorer.

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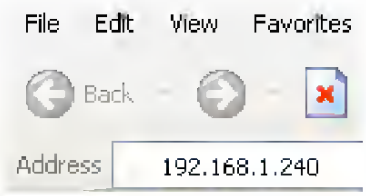
7. Web Configuration Utility

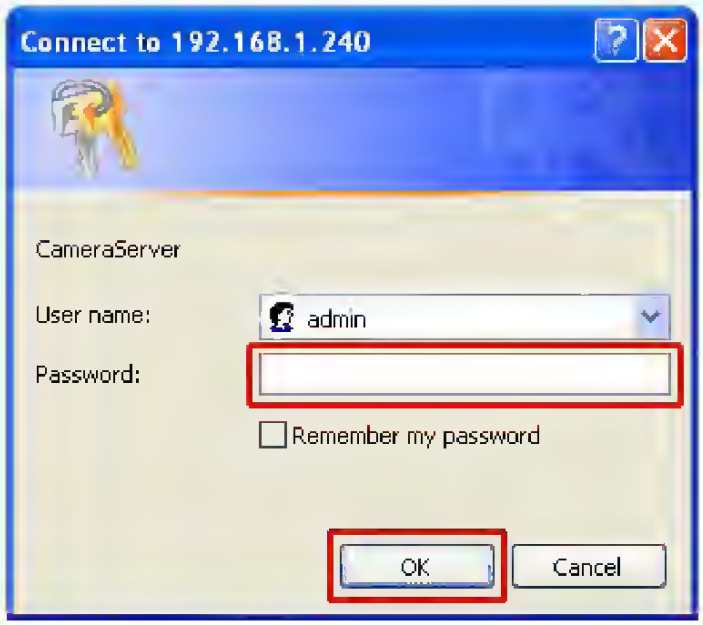
The built-in Web Configuration Utility allows you to remotely manage the IP Camera with the ease and convenience of your Web Browser (Internet Explorer). If you are not using Internet Explorer, you can use the bundled **IPView Pro** software to manage the camera. See ***Section 8*** for detail.

Step 1 Open your Web Browser (Internet Explorer), enter the default IP Address of the Camera **192.168.1.240** in the Address Bar and press **Enter**.



Note: *If you have changed the IP Address of the Camera as described in* ***Section 5****, enter the Camera's new IP Address instead of the default.*

Step 2 Enter the password for the camera (Default is **admin**) and click **OK**.



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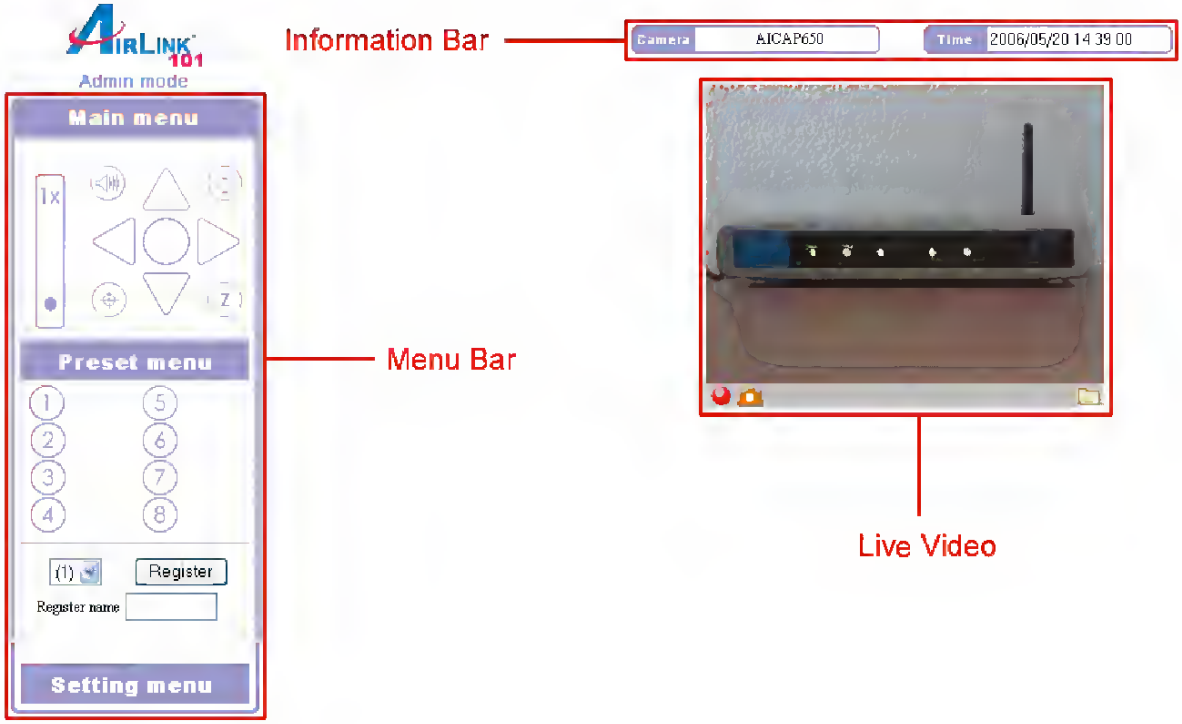
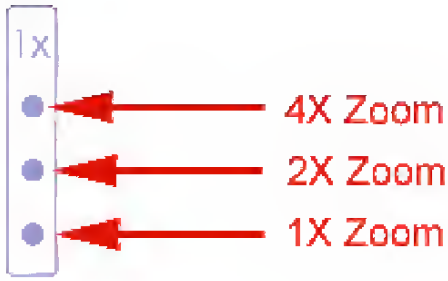
The index page displays the menu bar, information bar, and the live video.



7.1 Main Menu

Digital Zoom In/Out

In the **Main menu**, click the Digital Zoom Bar to zoom in and out of the displayed image by 1X, 2X, or 4X.



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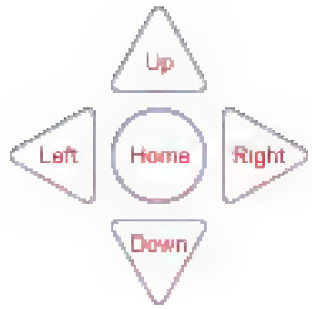
Adjust the Camera Lens Position

You can control the camera lens position by clicking the Up/Down/Left/Right arrow buttons in the **Main menu**. Clicking the Home button will move the lens to the original home position. Additionally, you can click directly in the area of the live video to change the position of the lens.



Flash LED On/Off

The camera is equipped with a powerful Flash LED that allows you to capture clear images in a dark environment. In low light environment, click the Flash LED button ( ) to turn on the flash light of the camera.

Buzzer On/Off

You can use the Buzzer button ( ) to test the internal buzzer of the camera. The camera will sound a **Bi-Bi**, **Bi**, **Alarm**, **Bi-Bo-Bi-Bo**, or **Robot** according to the selected sound in **Buzzer setting** of the Web Configuration Utility.

PIR Sensor On/Off

The Sensor button ( ) turns on/off the camera's motion detection feature which allows you to monitor the target area dynamically.

Privacy Mode On/Off

Click on the Privacy mode button ( ) to enter into privacy mode. This stops the camera from monitoring until it exits the Privacy mode.

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7.2 Preset Menu

You can preset up to 8 positions for the camera from the **Preset menu**. This enables you to move the camera lens to the desired position quickly.

To set up the position, move the camera lens to the desired position first and select the number (1~8) from the pull-down list, then click the ***Register*** button. To identify the assigned position easily, you can name the position by entering a descriptive name in the **Register name** box.

When you have assigned the position for the camera, simply click the Number button (1~8) and the camera lens will move to the pre-defined position immediately.

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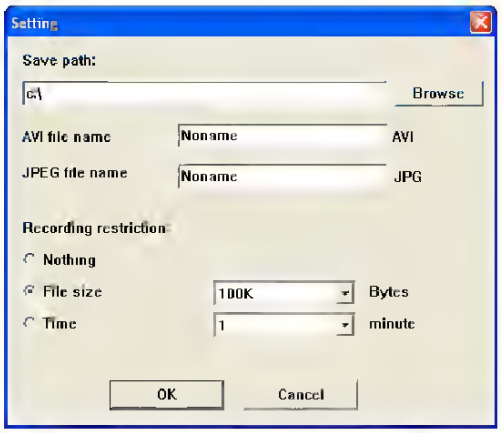
7.3 Record Video and Capture Image

In the **Live Video Area**, you can click the **Record** button ( ) to record and save a video clip, or click the **Snapshot** button ( ) to capture and save a still image.

You can change the settings of the recorded/captured file by clicking on the **Setting** button ( ), which will bring up the following window:



Save path: Assign the destination folder to save the recorded/captured file. You can use the **Browse** button to browse to the destination folder.

AVI file name: Assign the file name for the recorded video clip.

JPEG file name: Assign the file name for the captured still image.

Recording restriction: Set up the limit for the recorded/captured file by **Nothing**, **File size**, or **Time**.

Click **OK** when done.

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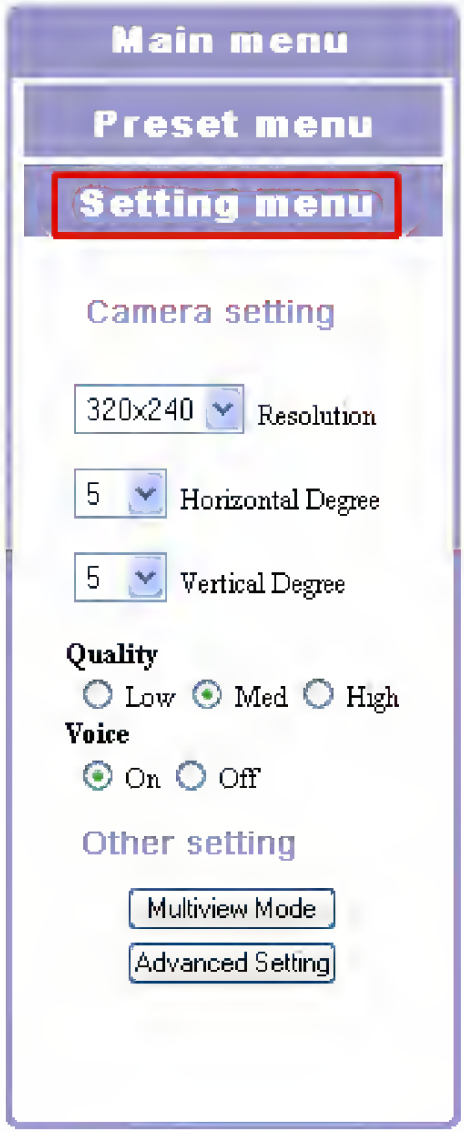
7.4 Setting Menu

The **Setting menu** contains the basic camera settings. Click on the Setting Menu bar to display the Setting Menu.



Resolution: You can set the image resolution by selecting **176x144**, **320x240**, or **640x480**.

Horizontal degree(s): Allows you to change the moving range (1°~10°) when you pan the camera lens position.

Vertical degree(s): Allows you to change the moving range (1°~10°) when you tilt the camera lens position.

Quality: You can set the image quality by selecting **Low**, **Med**, or **High**.

Voice: Select **On**/**Off** to enable/disable the camera's microphone.

Multiview Mode: Switches to Multiview Mode.

Advanced Setting: Displays the Advanced Setting menu.

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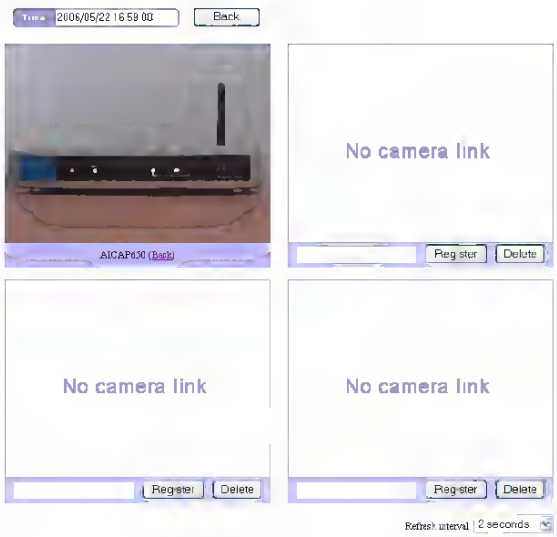
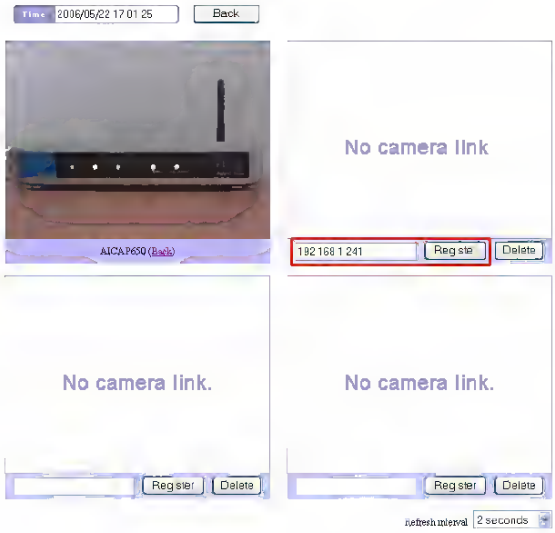
7.5 Multiview Mode

If you have multiple cameras connected to your network, you can monitor the videos of these cameras simultaneously by switching to Multiview Mode. Click the **Multiview Mode** button in the **Setting menu** to change to the following multiview screen.



To add an additional camera, enter the new camera's IP address and click **Register**.



You can select the refresh interval from the **Refresh interval** drop-down list.

To return to the Home page, click **Back**.

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7.6 Advanced Setting

The Advanced Setting allows you to configure various settings of the camera, including **Camera setting**, **Security setting**, **Network setting**, **System setting**, and **Maintenance**.

7.6.1 Camera Setting

The Camera setting provides three sub-menus: **Camera setting**, **Date/Time setting**, and **Buzzer setting**.

Camera Setting

Camera name: Assign a descriptive name for the camera.
Image size: Select the desired image resolution from three formats: **176x144**, **320x240**, and **640x480**. Higher resolution yields better quality but uses more network resources.
Quality: Select the desired image quality from three levels: **Low**, **Med**, and **High**.
Brightness: Adjust the brightness level ranging from **1** to **128**.
Contrast: Adjust the contrast level ranging from **1** to **128**.
Color: Adjust the color level ranging from **1** to **128**.
Sharpness: Adjust the sharpness level ranging from **1** to **12**.

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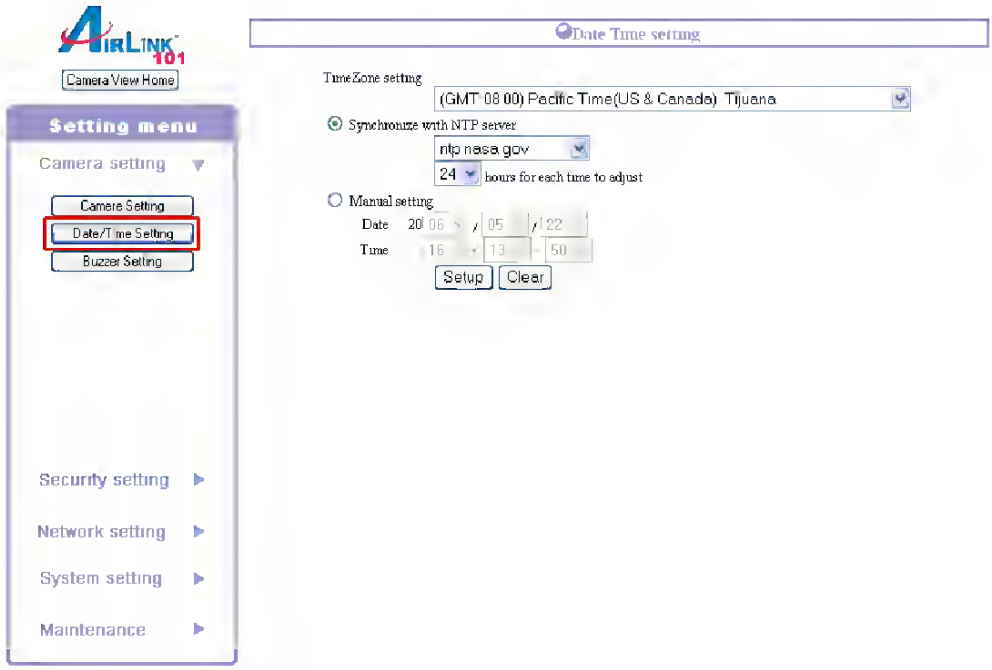
Frequency: To eliminate flicker image, select the proper frequency according to the camera's location. The options include: **50Hz**, **60Hz**, or **Outdoor**.
Flip Image: Select **Horizontal** to display the image in a horizontal mirror mode. Select **Vertical** to display the image in a vertical mirror mode.

Click **Setup** to save the settings.

Date/Time Setting

This sub-menu allows you to setup the date and time for the camera. For system management purposes, a correct date/time setting is critical for accurate time stamps on the system logs.



Time Zone setting: Select a time zone according to your location.

Synchronize with NTP Server: Select this option and the date/time will be synchronized with the NTP server you selected.

Manual setting: Select this option to set up the date and time manually.

Click **Setup** to save the settings.

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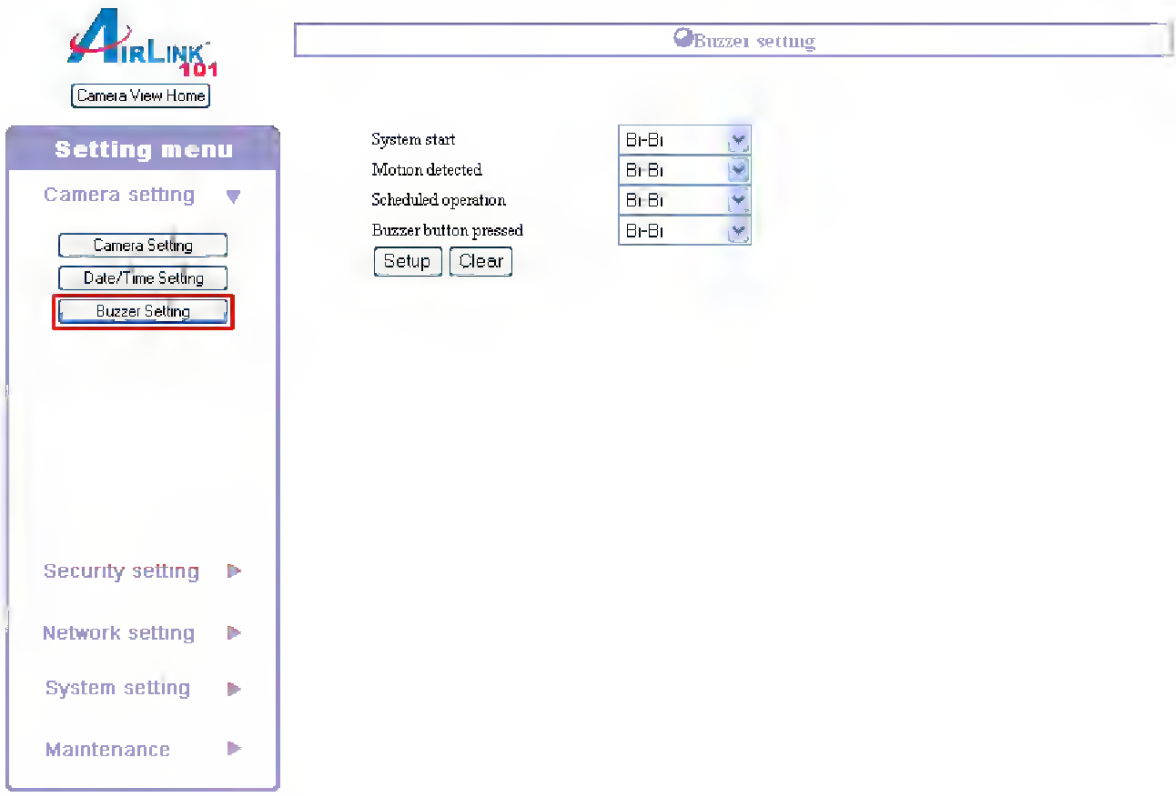
Buzzer Setting

If you enabled the camera's buzzer feature, you can setup the buzzer type for the following action: **System start**, **Motion detected**, **Scheduled operation**, and **Buzzer button pressed**.

The available buzzer sound include: **Bi-Bi**, **Bi**, **Alarm**, **Bi-Bo-Bi-Bo**, and **Robot**.



Click **Setup** to save the settings.

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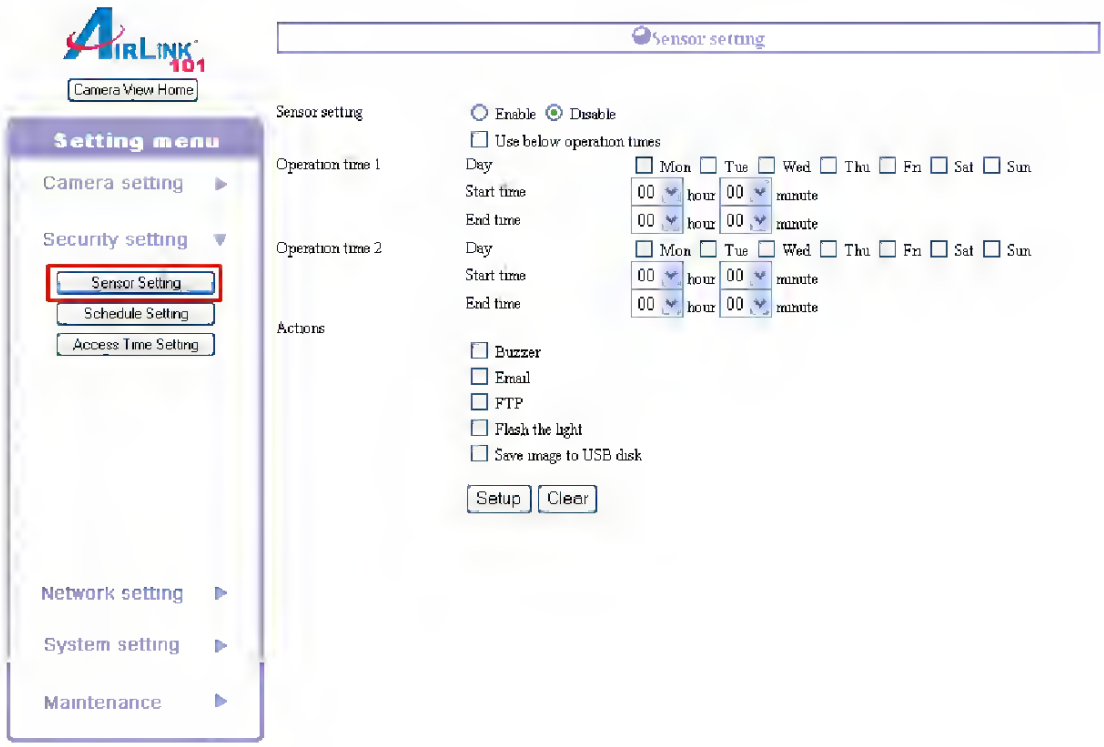
7.6.2 Security Setting

The **Security Setting** page provides three sub-menus: Sensor setting, Schedule setting, and Access time setting.

Sensor Setting

This sub-menu allows you to assign the time period for the camera to take the selected action(s) when motion is detected.



Sensor setting: Select **Enable**/**Disable** to enable/disable the camera's sensor feature. When you enable this feature, the **Use below operation times** check box must be selected so that the settings in **Operation time 1/2** can be applied. Otherwise, the camera will keep detecting motion.

Operation time 1/2: If the camera's motion sensor is enabled, these two options allow you to assign the operational time frame for the sensor. If you want to have the camera constantly detect motion, leave these two options blank.

Action: Select the camera's response when motion is detected: **Buzzer**, **Email**, **FTP**, **Flash the light**, and **Save image to USB disk**.

Click **Setup** to save the settings.

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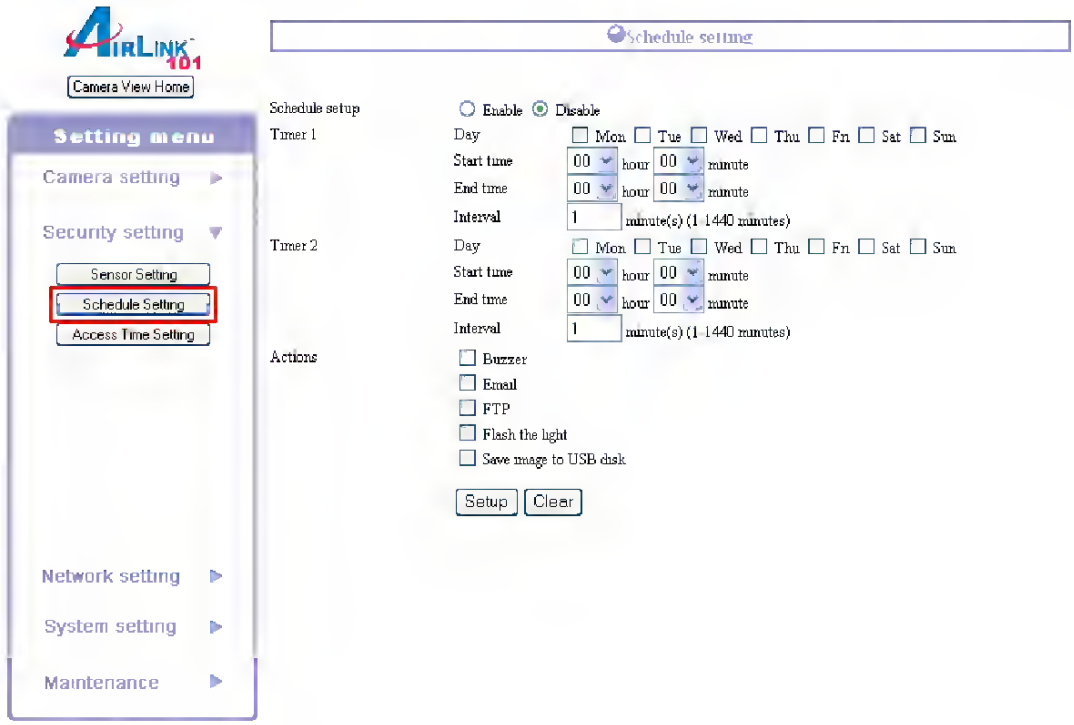
Schedule Setting

This sub-menu allows you to assign scheduled time period(s) for the camera to perform the pre-selected actions.



Schedule setup: Select **Enable**/**Disable** to enable/disable the camera's schedule feature.

Timer 1/2: If the camera's schedule feature is enabled, these two options allow you to assign the specific time frame for the camera's action(s).

You can setup the interval time (by minutes) for the camera's action in the **Interval** box. For example, if you set up 10 minutes, the camera will act every 10 minutes during the assigned time period.

Action: Select the camera's action when it reaches the scheduled time: **Buzzer**, **Email**, **FTP**, **Flash the light**, and **Save image to USB disk**.

Click **Setup** to save the settings.

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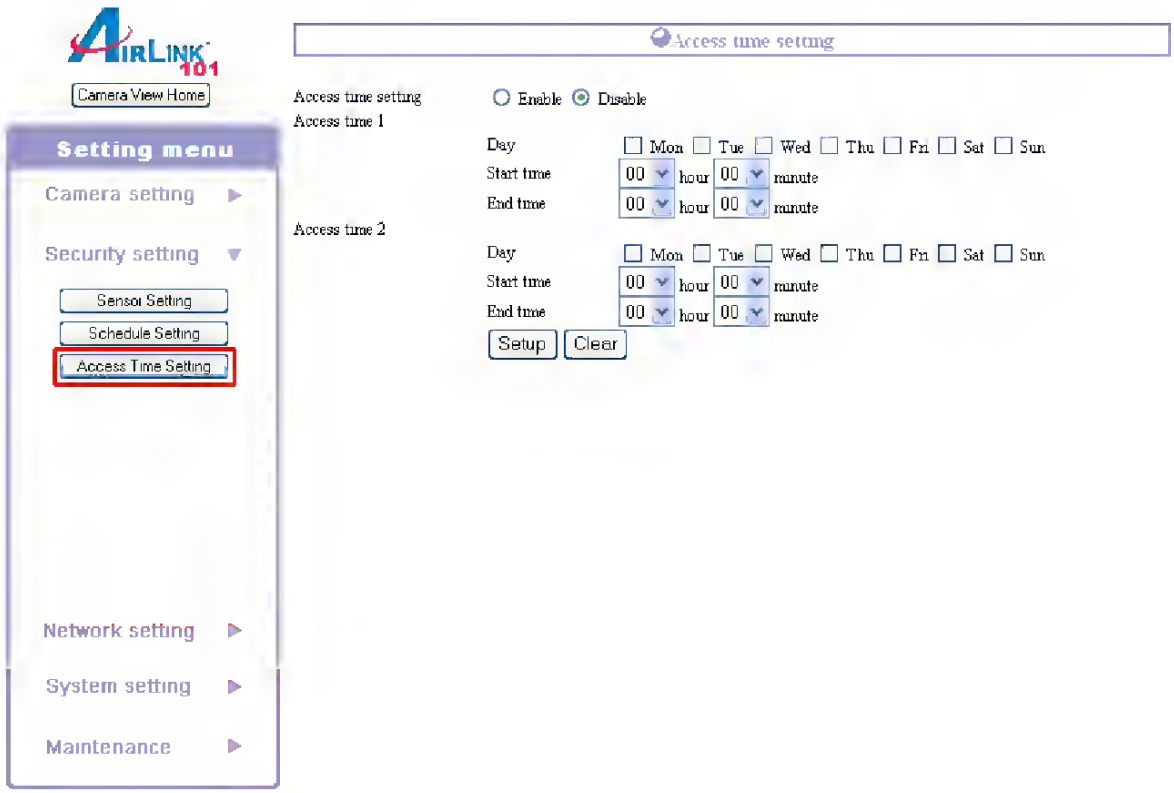
Access Time Setting

This sub-menu allows you to assign the time period for the users to view the live video. When this feature is enabled, the users can only access the camera to view the live video during the specified time period. During other times, the message **"Access restricted. Image can not be viewed"** will be displayed on the Live Video Area.



Access time setting: Select **Enable**/**Disable** to enable/disable the camera's access time feature. If you disable the feature, the users are always allowed to view the video.

Access time 1/2: If the camera's access time feature is enabled, these two options allow you to assign the specific time frame when users are allowed to view the video.

Click **Setup** to save the settings.

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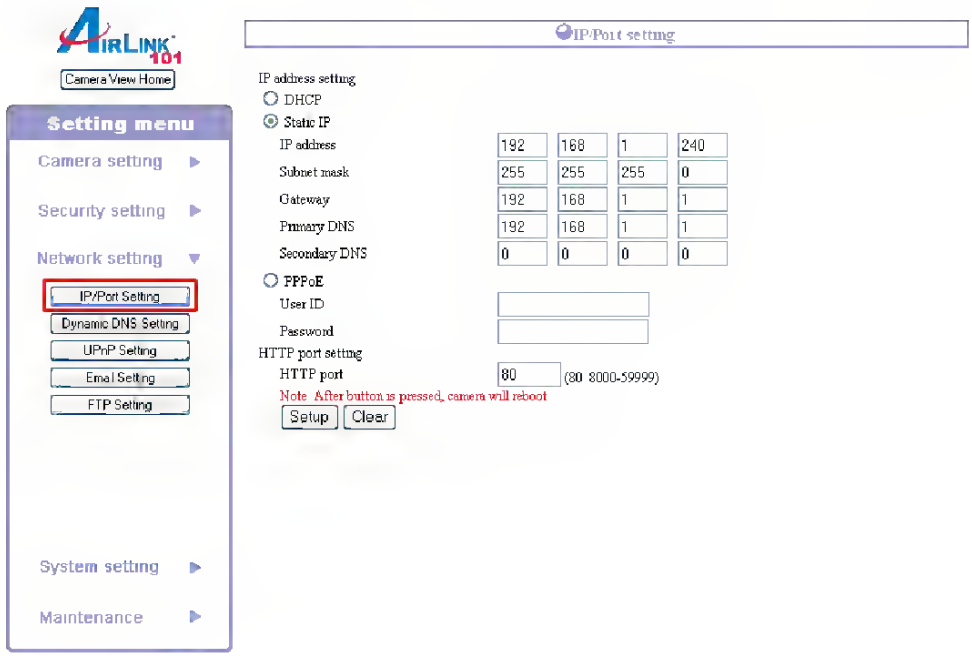
7.6.3 Network Setting

The Network setting page provides five sub-menus: **IP/Port Setting**, **Dynamic DNS Setting**, **UPnP Setting**, **Email Setting**, and **FTP Setting**.

IP/Port Setting

This sub-menu allows you to configure the camera's IP address mode and assign its port number.



DHCP: If your network uses a DHCP server, select this option. With this option, the camera will be assigned an IP address from the DHCP server automatically. However, please make sure that the DHCP server is set to assign a static IP address to the camera.

Static IP: You can manually assign a static IP address to the camera.

PPPoE: If your application requires a direct connection from a DSL modem through the camera's RJ-45 LAN port, select this option and enter the User ID and Password into the respective boxes. The camera will get an IP address from the ISP at start up.

HTTP Port: Assign a port number for the camera. The default HTTP port is **80**.

Click **Setup** to save the settings.

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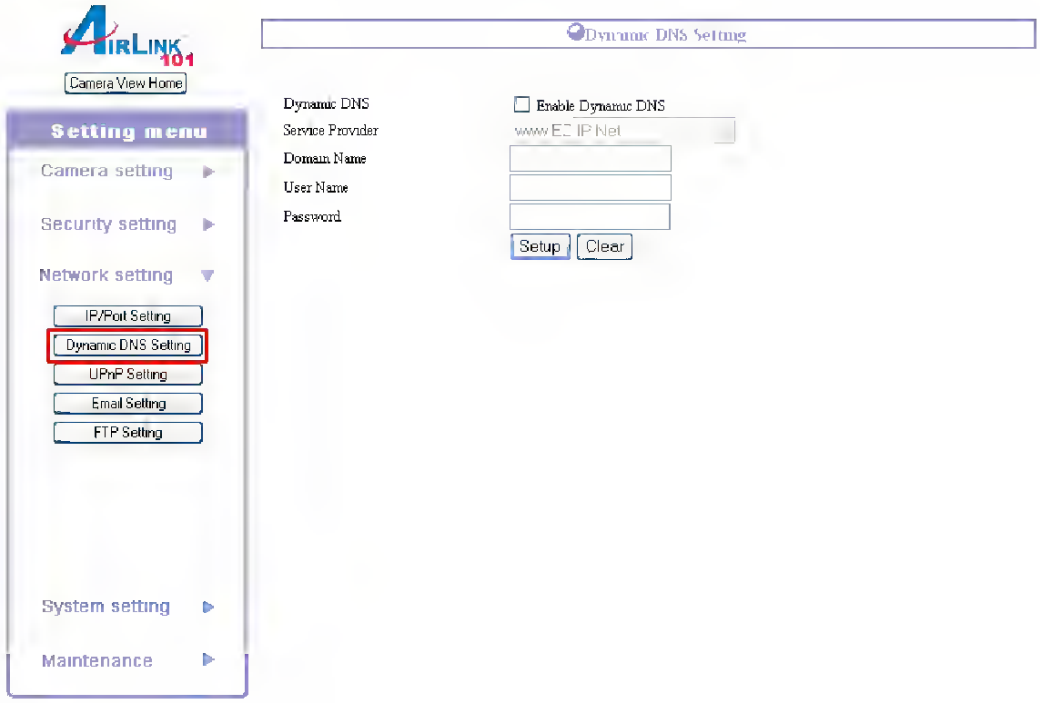
Dynamic DNS Setting

This camera supports Dynamic DNS feature which allows you to assign a fixed host and domain name to a dynamic Internet IP address. Please note that you have to sign up for DDNS service with one of the listed service providers before using this feature.



Select the **Enable Dynamic DNS** check box to enable the feature. Select your DDNS Service Provider from the Service Provider drop-down list and fill in the required data for the **Domain Name**, **User Name**, and **Password** fields.

Click **Setup** to save the settings.

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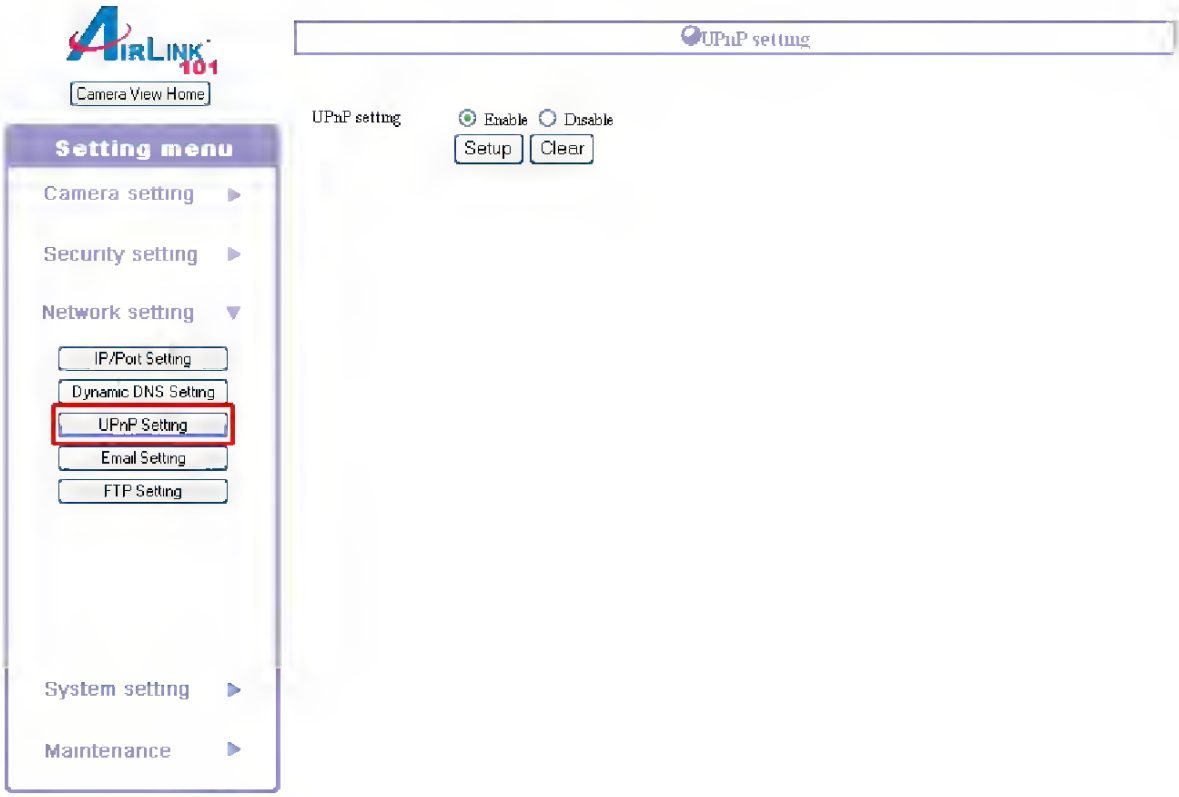
UPnP Setting

UPnP allows peer-to-peer connectivity between various network devices seamlessly.



Select **Enable/Disable** in the **UPnP setting** option to enable/disable this function.

Click **Setup** to save the settings.

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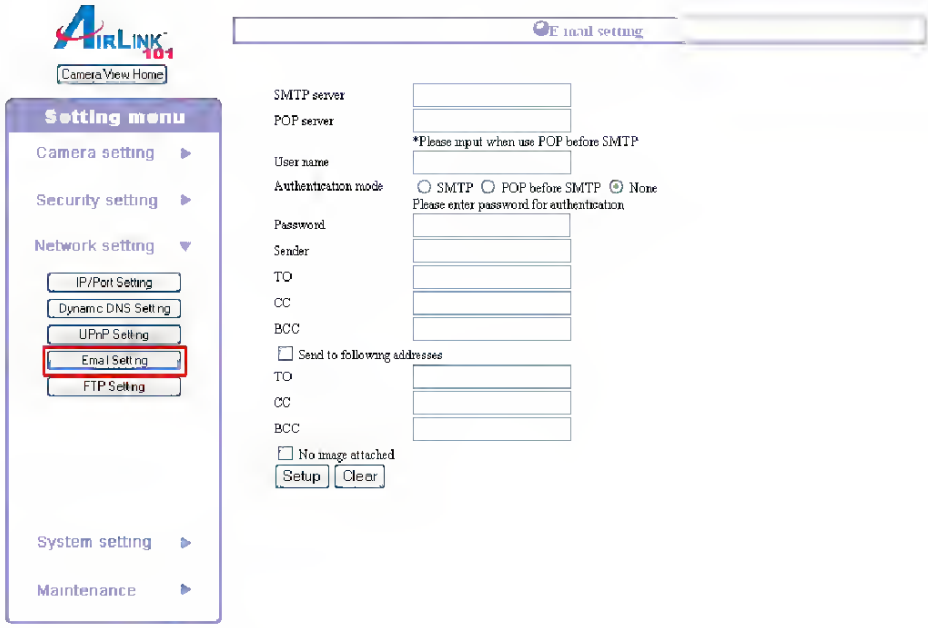
Email Setting

This sub-menu allows you to configure the Email setting.



If one of the selected actions in the **Security setting** is Email, you have to specify the appropriate Email properties.

SMTP/POP server: Enter the mail server in **SMTP server** or **POP server** field according to your network configuration. POP server will be used when the **Authentication mode** is set to **POP before SMTP**.

User name: Enter the user name to log into the mail server.

Authentication mode: Select the correct authentication mode according to the setting of the mail server.

Password: Enter the password to log into the mail server.

Sender: Enter the e-mail address of the user who will send the e-mail.

To: Enter the e-mail address of the user who will receive the e-mail.

CC: Enter the e-mail address of the user who will receive a copy the e-mail.

BCC: Enter the e-mail address of the user who will receive a secret copy the e-mail.

Click **Setup** to save the settings.

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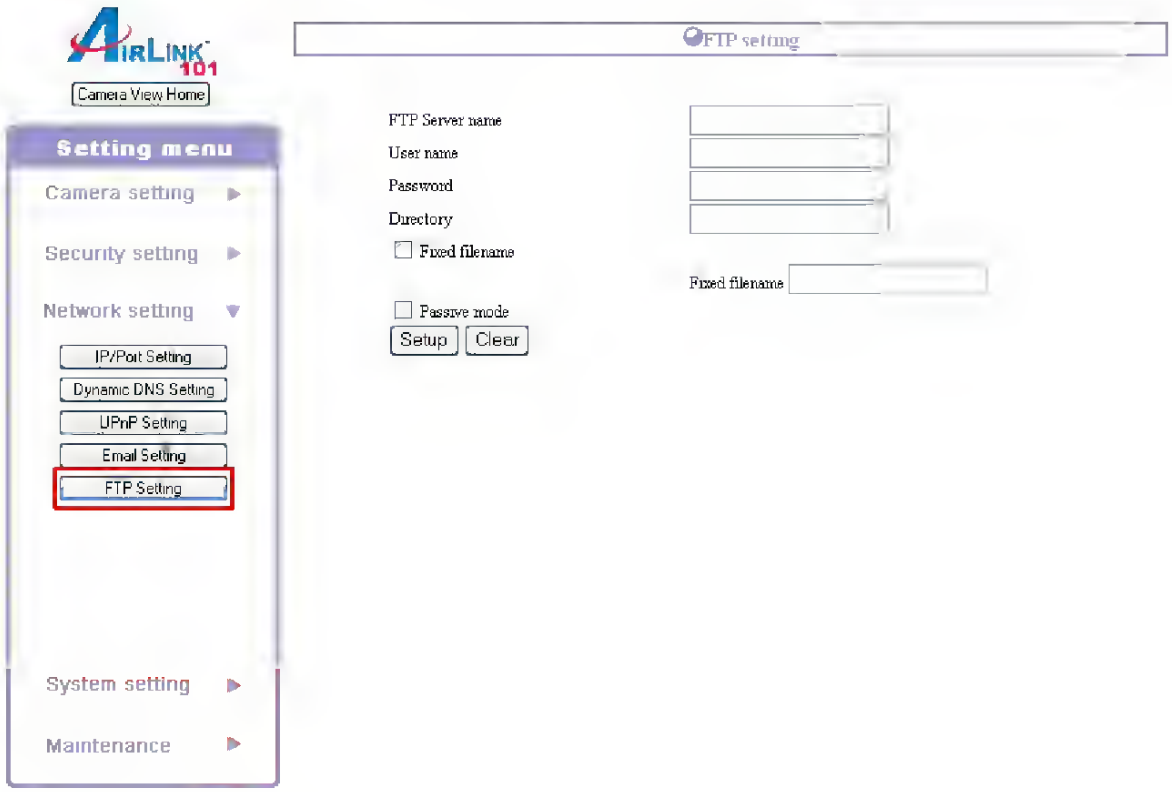
FTP Setting

This sub-menu allows you to configure the FTP Setting.



If one of the selected actions in the **Security setting** is FTP, you have to specify the appropriate FTP properties.

FTP server name: Enter the IP address of the target FTP site.

User name: Enter the user name to log into the FTP server.

Password: Enter the password to log into the FTP server.

Directory: Enter the directory for uploading the images.

Fixed filename: Select this box to enable fixed filename and enter the filename.

Passive mode: Select this box to enable passive mode. The default setting is active mode.

Click **Setup** to save the settings.

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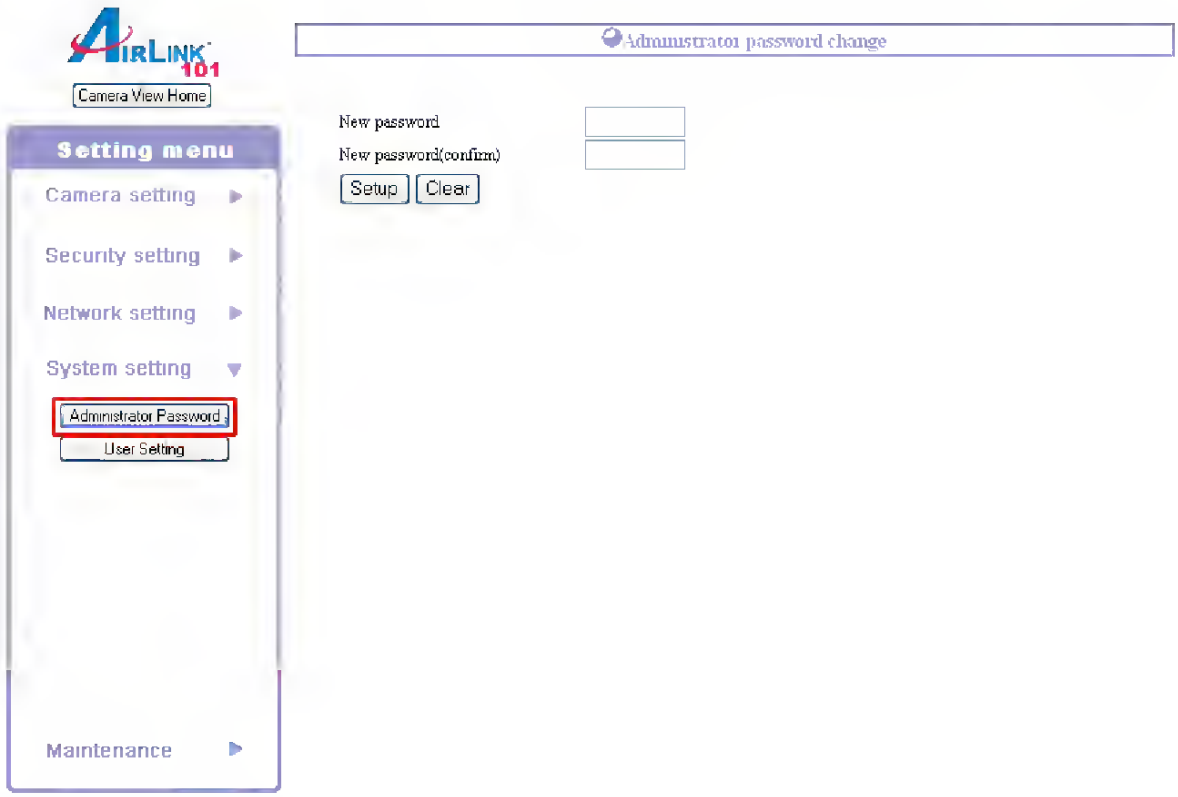
7.6.4 System Setting

The **System setting** page provides two sub-menus that allow you to manage users of the camera: **Administrator password** and **User setting**.

Administrator Password

This sub-menu allows you to change the administrator's login password.



Enter the new password twice in the **New password** and **New password (confirm)** field to setup the new password for the administrator.

Click **Setup** to save the settings.

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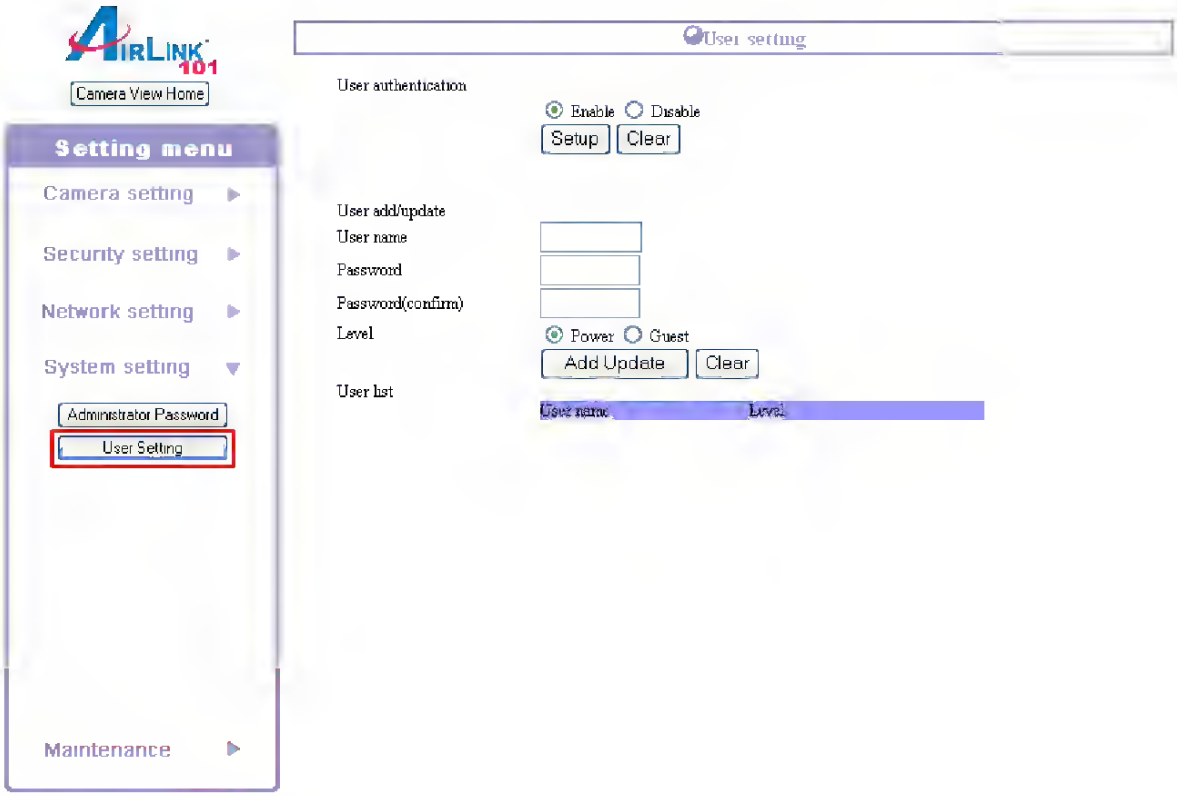
User Setting

This sub-menu allows you to configure user-level access to the camera.



User authentication: When this feature is enabled, you have to enter the username and password in the login window to access the camera. When the option is disabled, you can directly access the camera as a **Power** user without entering the username and password; however, once you try to access the setup page, you will be asked to enter the administrator's username and password.

User add/update: To add or modify a user, complete the required settings in the enter the **User Name**, **Password**, and **Password (confirm)** fields and select whether the new user will be a Power or Guest user and click Add Update button. The newly added user will appear under the User list.

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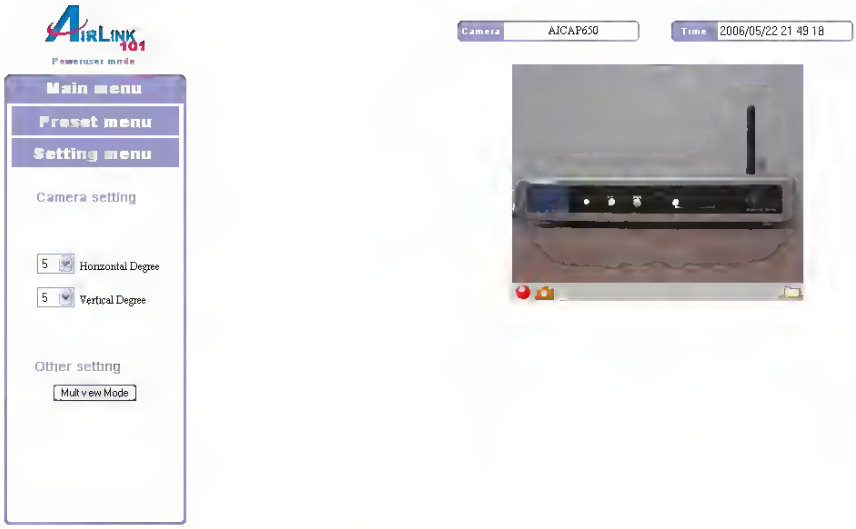
The following explains the various user levels:

Admin: Have full control and access to the camera

Power: Allowed to use some basic functions of the camera such as Zoom In/Out, Buzzer, Flash LED, camera's lens position, Preset menu, and switching to multiview mode.



Power User View

Guest: Allowed to view live video, and record/capture the video/image by using the Record/Snapshot buttons.

Guest View

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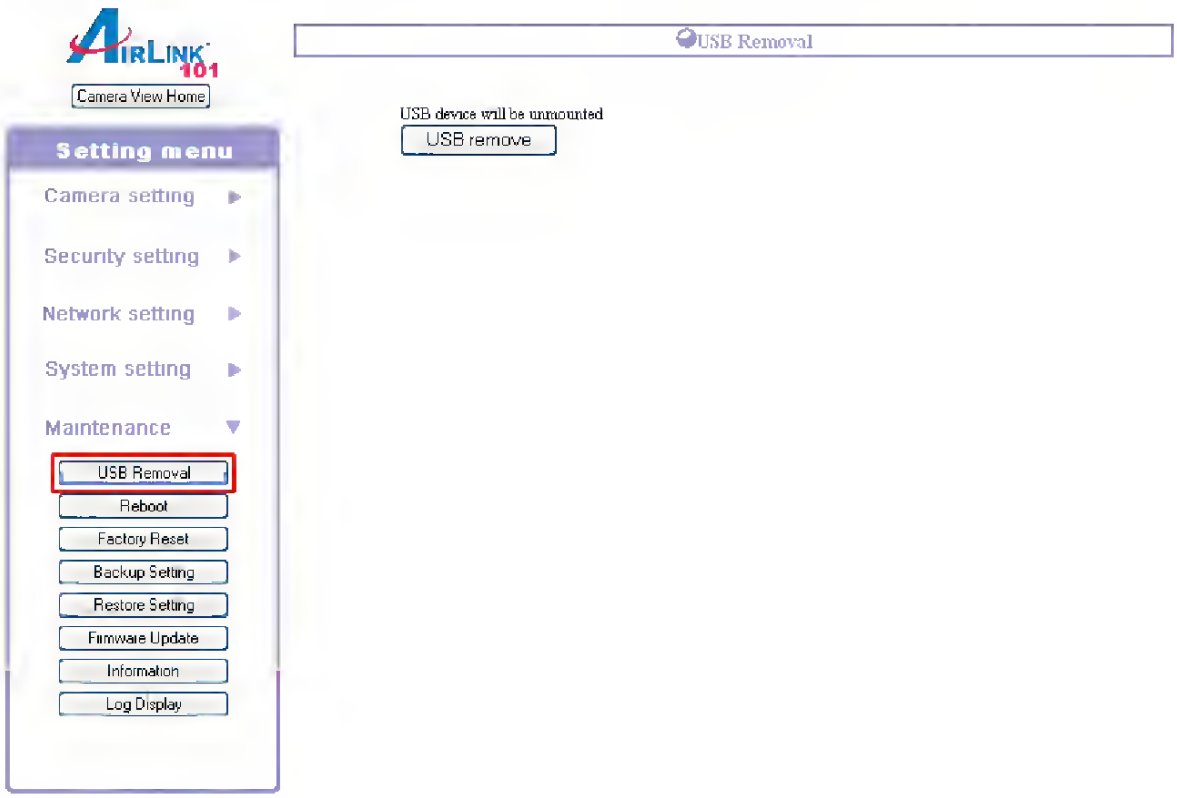
7.6.5 Maintenance

The Maintenance page provides six sub-menus: **USB Removal**, **Reboot**, **Factory Reset**, **Firmware Update**, **Information**, and **Log Display**.

USB Removal

To remove the connected USB storage device safely, click the **USB remove** button in this sub-menu before removing the USB device. Alternatively, you can press and hold the Privacy Mode button for 5 seconds until the camera activates the buzzer indicating that you can remove the USB storage device from the USB port safely.



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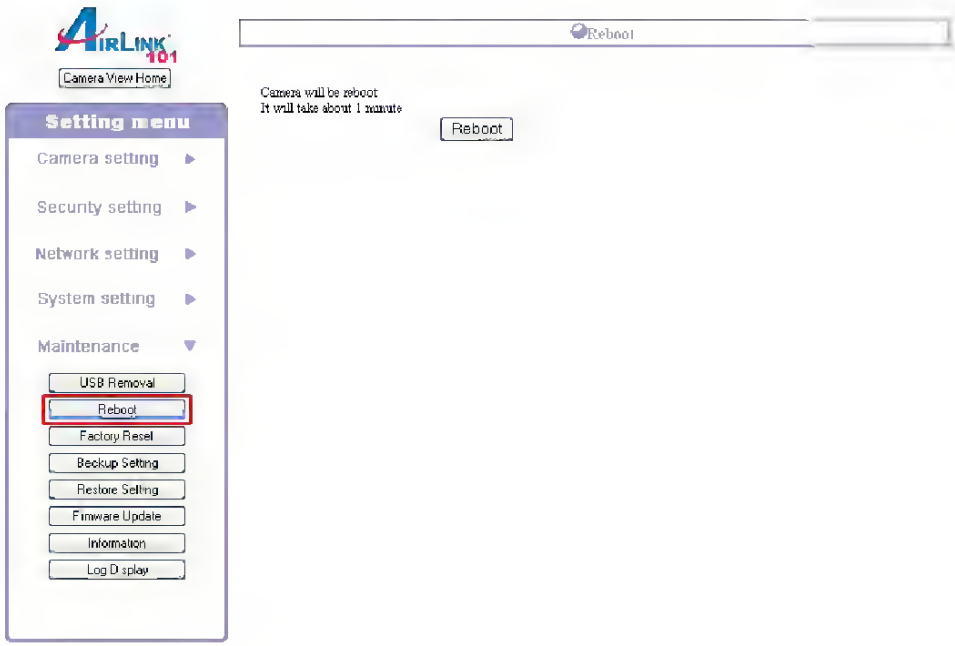
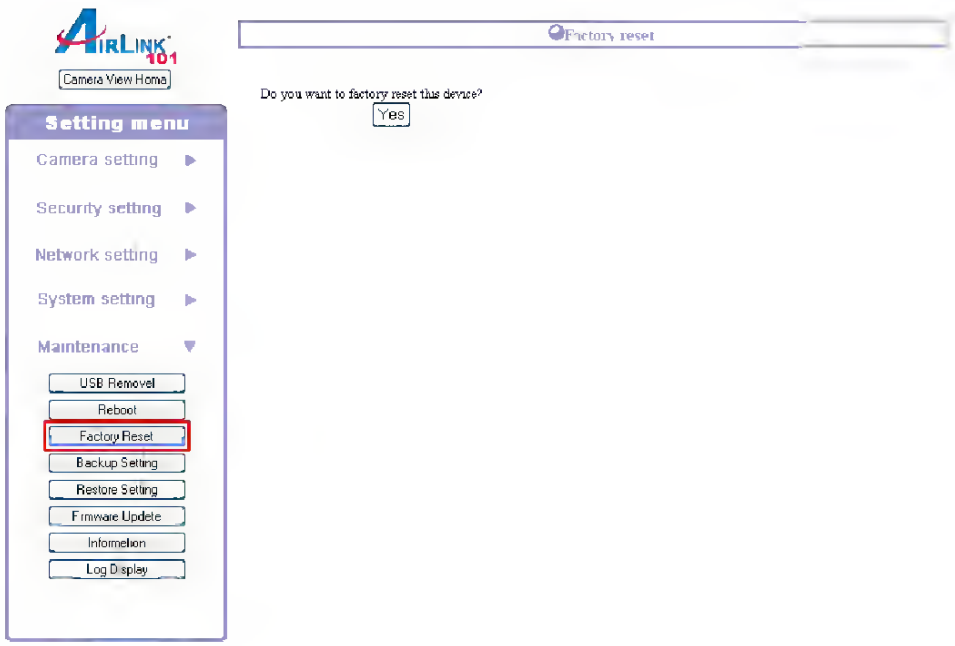
Reboot

Click **Reboot** to restart the camera while retaining all the settings.



Factory Reset

Click **Yes** to return all the settings to factory default.



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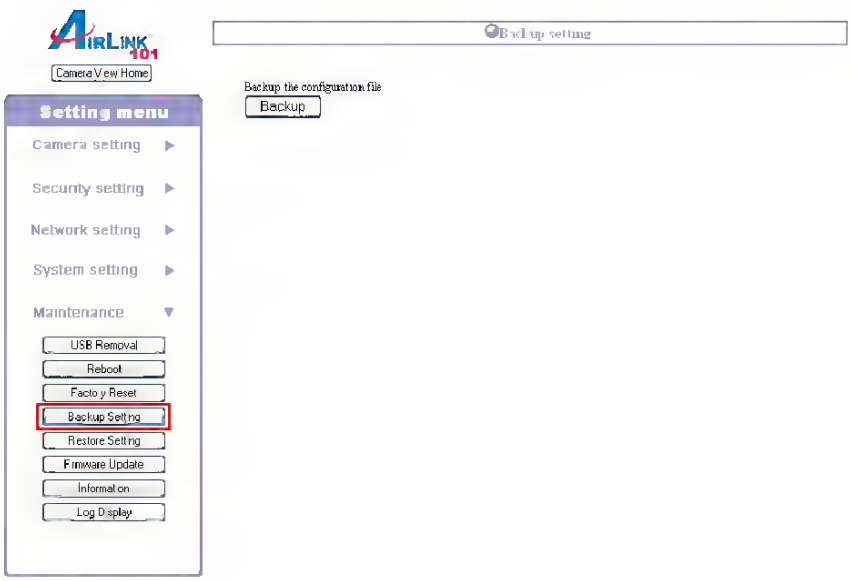
Backup Setting

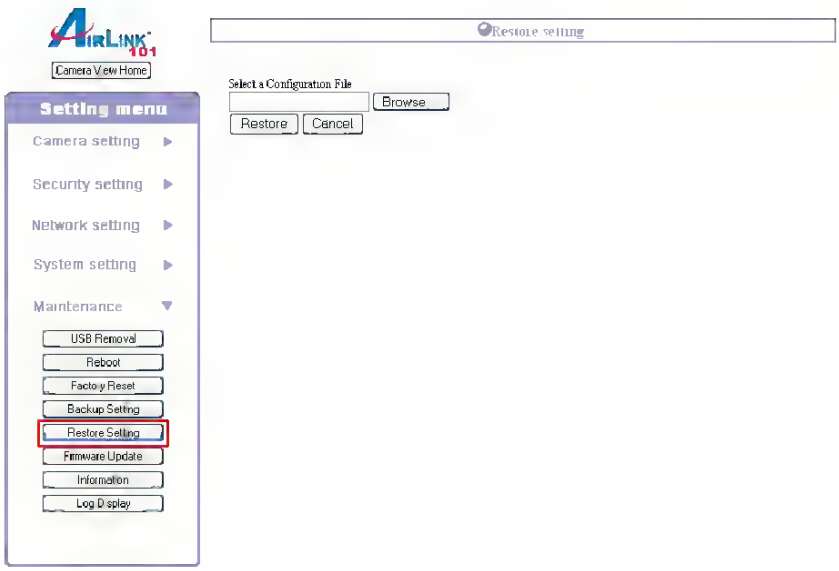
You can save the camera's settings to the local hard drive by using the Backup Setting feature. Click **Backup** to save the settings.

Follow the on-screen instructions to save the settings. The default filename is Config.cfg



Restore Setting

You can restore previously saved settings by using the Restore Setting feature. Click **Browse** to browse for the saved file (Config.cfg), then click **Restore** to restore the saved settings.



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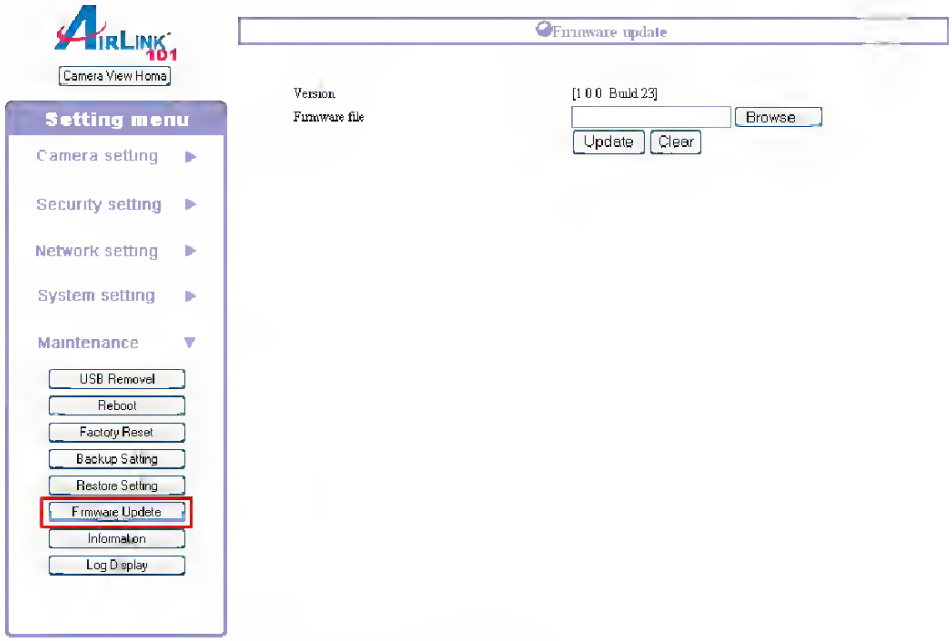
Firmware Update

This sub-menu allows you to update the Camera to the latest firmware.



You can check our website at www.airlink101.com to see if there is a newer firmware available for download.

Step 1 Download the new firmware from our web site at www.airlink101.com

Step 2 Unzip the new firmware.

Step 3 Click on the **Browse** button and locate the new firmware.

Step 4 Click on the **Upgrade** button to begin the upgrade.

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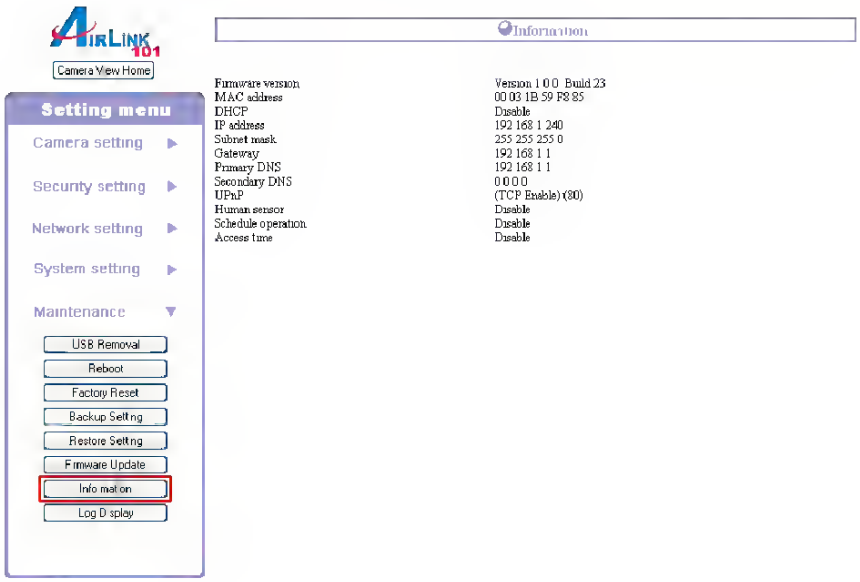
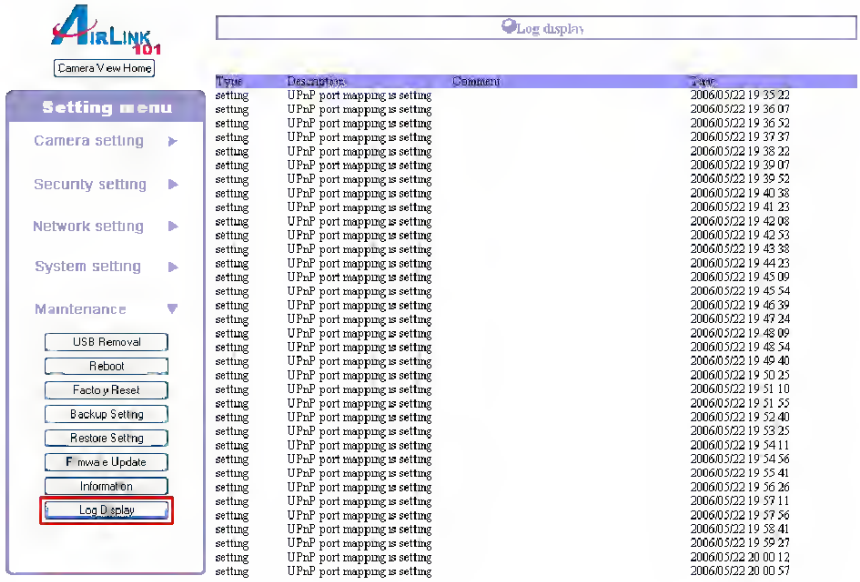
Information

This sub-menu provides general information of the camera including the firmware version, networking configuration, and security settings.



Log Display

This sub-menu provides a list that contains the events and actions of the camera.


Camera View Home
Setting menu
Camera setting
Security setting
Network setting
System setting
Maintenance
USB Removal
Reboot
Factory Reset
Backup Setting
Restore Setting
Firmware Update
Information
Log Display
Log display
Type Description Comment Time
setting UPnP port mapping is setting 2006/05/22 19 35 22
setting UPnP port mapping is setting 2006/05/22 19 36 07
setting UPnP port mapping is setting 2006/05/22 19 36 52
setting UPnP port mapping is setting 2006/05/22 19 37 37
setting UPnP port mapping is setting 2006/05/22 19 38 22
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setting UPnP port mapping is setting 2006/05/22 19 47 24
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setting UPnP port mapping is setting 2006/05/22 19 57 11
setting UPnP port mapping is setting 2006/05/22 19 57 56
setting UPnP port mapping is setting 2006/05/22 19 58 41
setting UPnP port mapping is setting 2006/05/22 19 59 27
setting UPnP port mapping is setting 2006/05/22 20 00 12
setting UPnP port mapping is setting 2006/05/22 20 00 57

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8. Viewing Videos from External Network

If you want to access the Camera from an external network such as the Internet, please read the following example carefully and follow the steps.

Before you begin, you'll need to know your **Internet IP Address (WAN IP)** assigned by your Internet Service Provider (ISP) and at least one of your **ISP's DNS IP Address**. You can usually find these information on the **Status** page of your router's web configuration utility. If not, you'll need to contact your ISP for assistance.

Example:

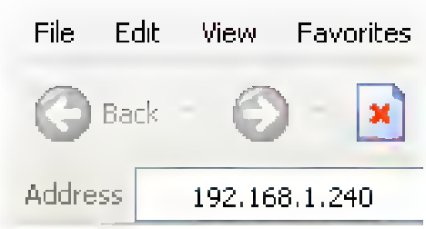
Network A = Location of the Camera

Camera's IP Address is **192.168.1.240** with HTTP Port **80** Enabled.

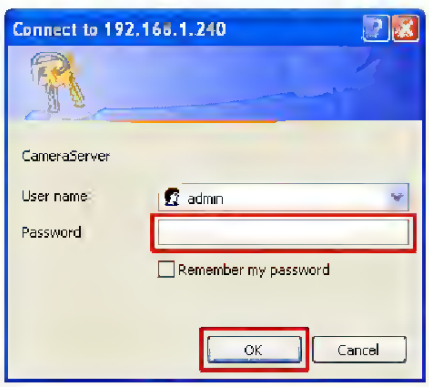
Network A's router has an Internet IP Address (WAN IP) of **172.16.1.1** assigned by the Internet Service Provider (ISP). The ISP's DNS IP Address is **10.0.0.1** and **10.0.0.2**

Network B = Location of the remote client trying to access the Camera.

Step 1 From one of the computers in **Network A**, open the web browser (Internet Explorer or Netscape), enter the Camera's IP Address **192.168.1.240** in the Address Bar and press **Enter**.



Step 2 Enter the username and password for the camera.



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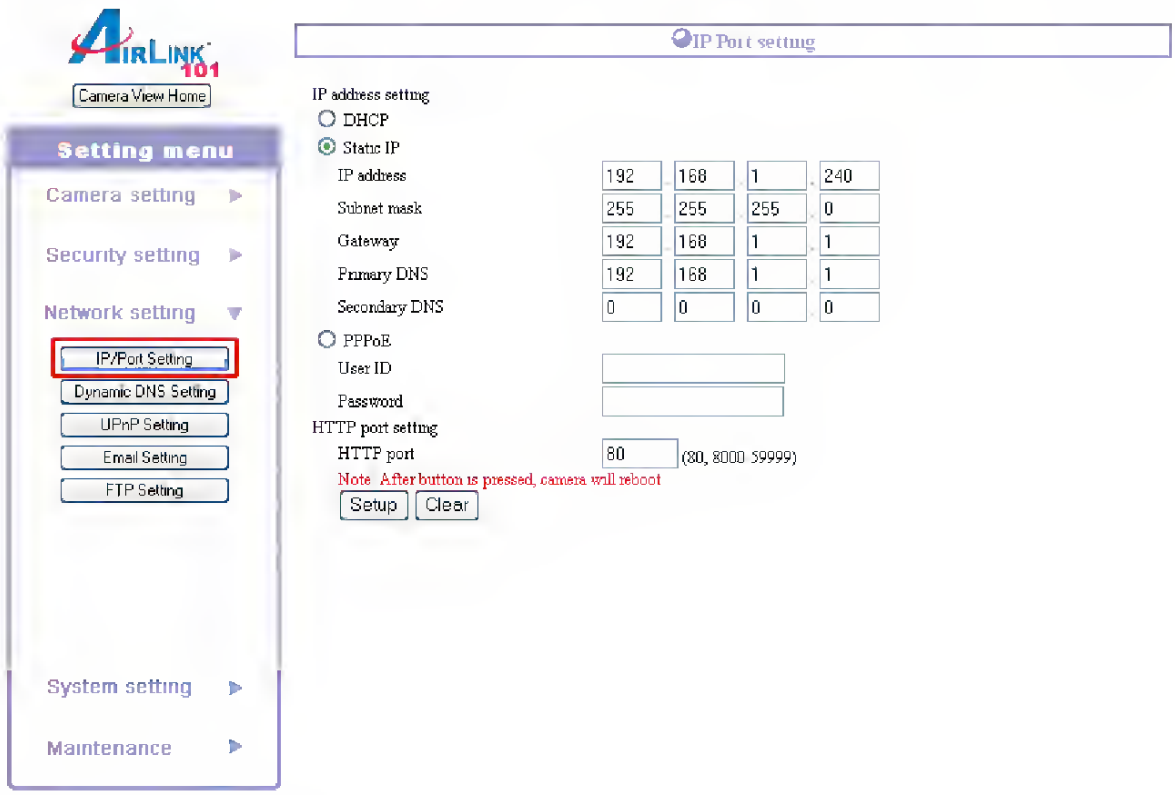
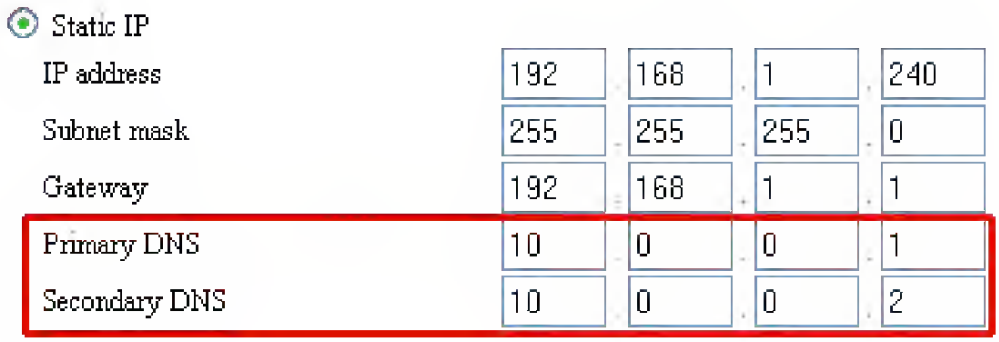
Step 3 Go to **Setting Menu > Advanced Setting > Network Setting > IP/Port Setting.**



Step 5 Enter your ISP's DNS IP Address at the **Primary DNS** and **Secondary DNS** fields.



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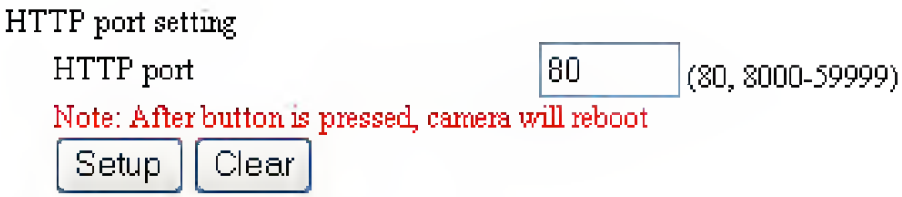
Step 6 Assign a port number for the camera to use. (Default is **80**).



Important: You must assign a port number that's not in use by any other application on your network.

Step 7 Click **Setup** to apply the new settings.

Now the Camera with IP Address of **192.168.1.240** has port **80** Open.

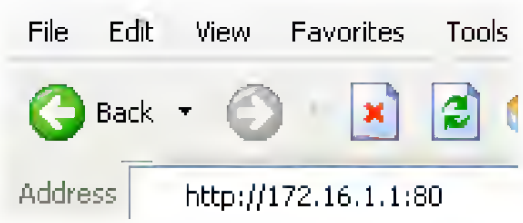
Step 8 From one of the computers in **Network A**, login to the web configuration utility of **Network A's** router.

Step 9 Navigate to the router's **Virtual Server** or **Port Forwarding** page.

Step 10 Enable Forwarding of port **80** to the Camera's IP Address (**192.168.1.240**) and save the new setting.

Step 11 From one of the computers in **Network B**, open the web browser (Internet Explorer), enter the **Internet IP Address (WAN IP)** of **Network A's** router (**http://172.16.1.1**) followed by a colon **:** and the number of the open HTTP Port (**80**) in the Address Bar and press **Enter**.

Ex. **http://172.16.1.1:80**



The remote client in **Network B** should be able to see the images from the Camera now.

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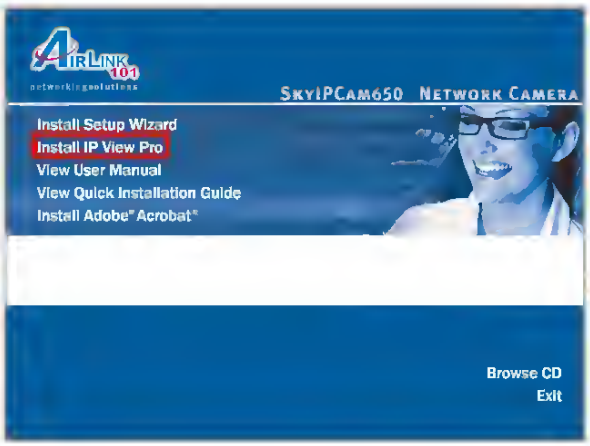
9. IPView Pro

The bundled IPView Pro software features a user-friendly interface that allows you to manage, view, and configure multiple IP Cameras on your network. If your web browser doesn't support ActiveX, you may use this software to view the live video instead. Follow the steps below if you wish to install and use this software.

9.1 Installing IPView Pro

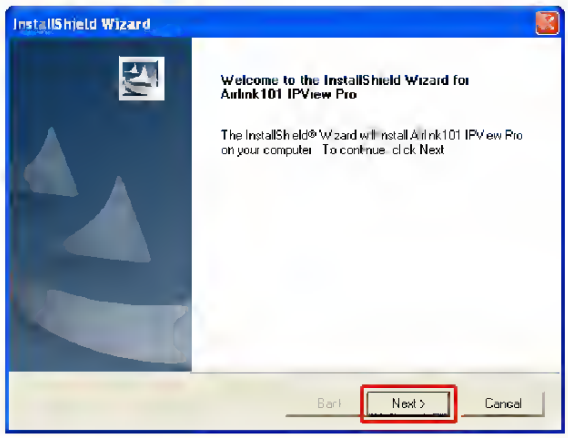
Step 1 Insert the provided CD and wait for the autorun screen to appear.

Step 2 Click on **Install IPView Pro**.



Note: *If the autorun screen does not appear automatically, go to* ***Start***, ***Run***, *type* ***D:\IPViewPro\IPViewPro.exe*** *(where* ***D*** *is the letter of your CD drive) and click* ***OK***.

Step 3 Click **Next**.


InstallShield Wizard
Welcome to the InstallShield Wizard for Airlink101 IPView Pro
The InstallShield® Wizard will install Airlink101 IPView Pro on your computer. To continue, click Next.
< Back
Next >
Cancel

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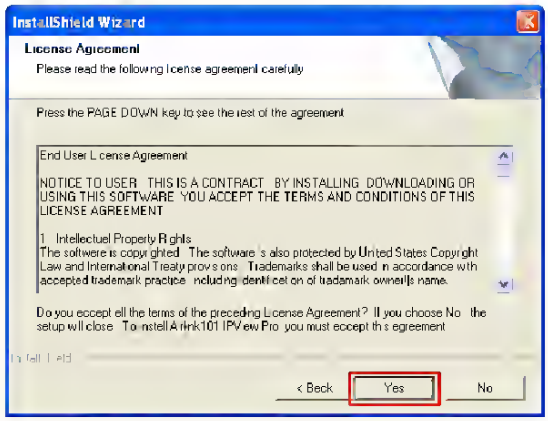
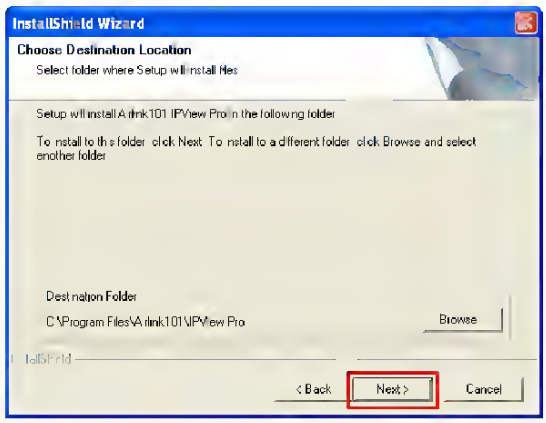
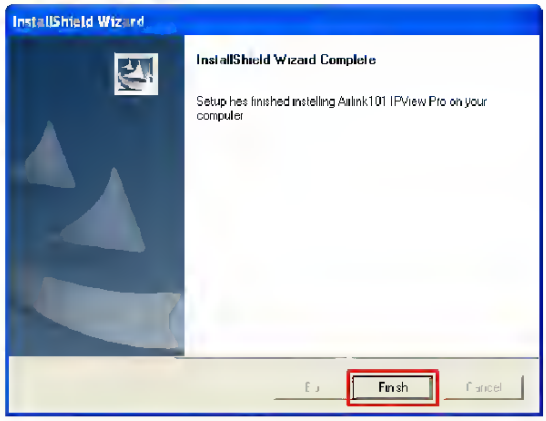
Step 4 Click **Yes** to accept the License Agreement.


InstallShield Wizard
License Agreement
Please read the following license agreement carefully
Press the PAGE DOWN key to see the rest of the agreement
End User License Agreement
NOTICE TO USER: THIS IS A CONTRACT. BY INSTALLING, DOWNLOADING OR USING THIS SOFTWARE, YOU ACCEPT THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT.
1. Intellectual Property Rights.
The software is copyrighted. The software is also protected by United States Copyright Law and International Treaty provisions. Trademarks shall be used in accordance with accepted trademark practice, including identification of trademark owner's name.
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install Allink101 IPView Pro, you must accept this agreement.
< Back
Yes
No

Step 5 Click **Next** to accept the default Destination Folder.


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install Allink101 IPView Pro in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\Allink101\IPView Pro
Browse
< Back
Next >
Cancel

Step 6 Click **Finish** to complete the installation.



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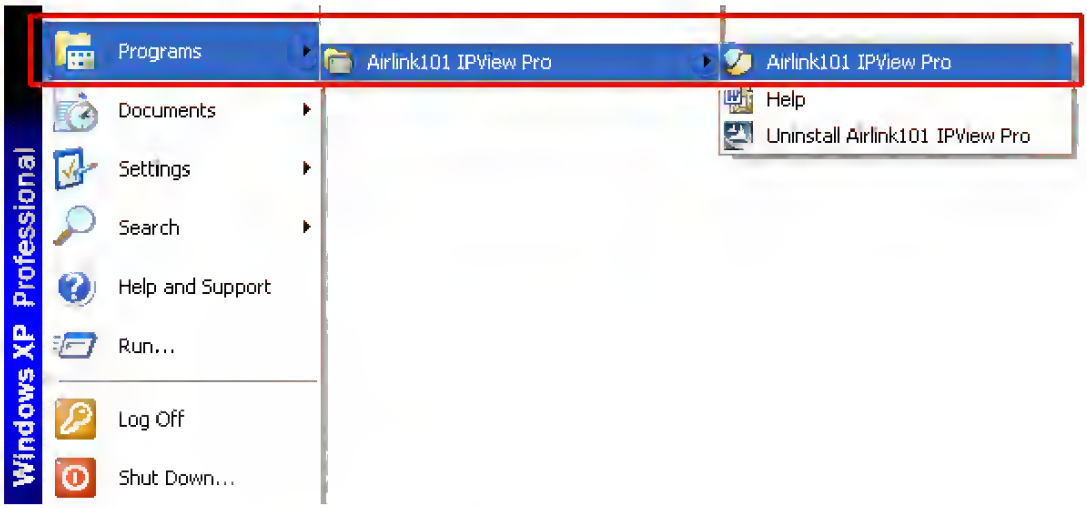
9.2 Starting IPView Pro

To start IPView Pro, go to **Start > (All) Programs > Airink101 IPView Pro > Airlink101 IPView Pro**



The main screen will appear as below:

Note: *Be sure to set your screen resolution to 1024 x 768 or higher.*

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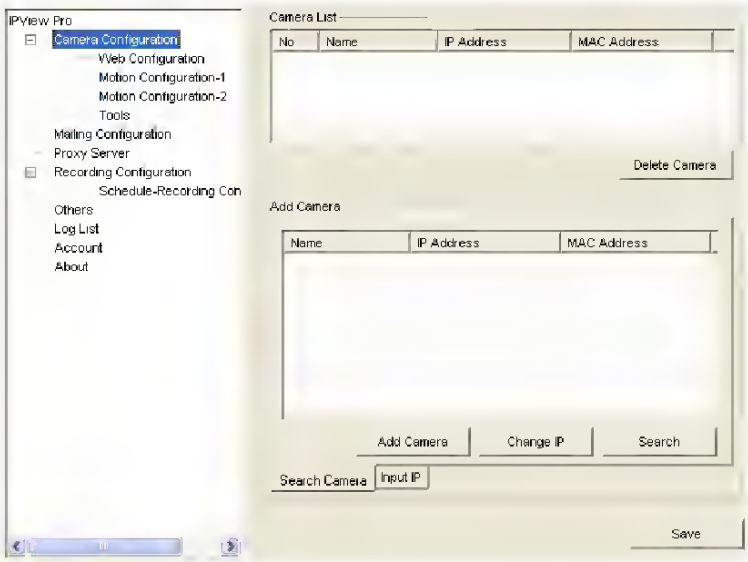
9.2.1 Adding Camera using the Search Method

Before you can do anything, the camera must be added to the **Camera List** first. If you have more than one camera, you'll need to add the additional cameras to the list as well. The **Search Method** is the easiest way to add your local cameras to the list.

Step 1 Click on the **System Configuration** button.

Step 2 The **System Configuration Window** will appear. This is where you configure all of your cameras that have been added to the **Camera List.**



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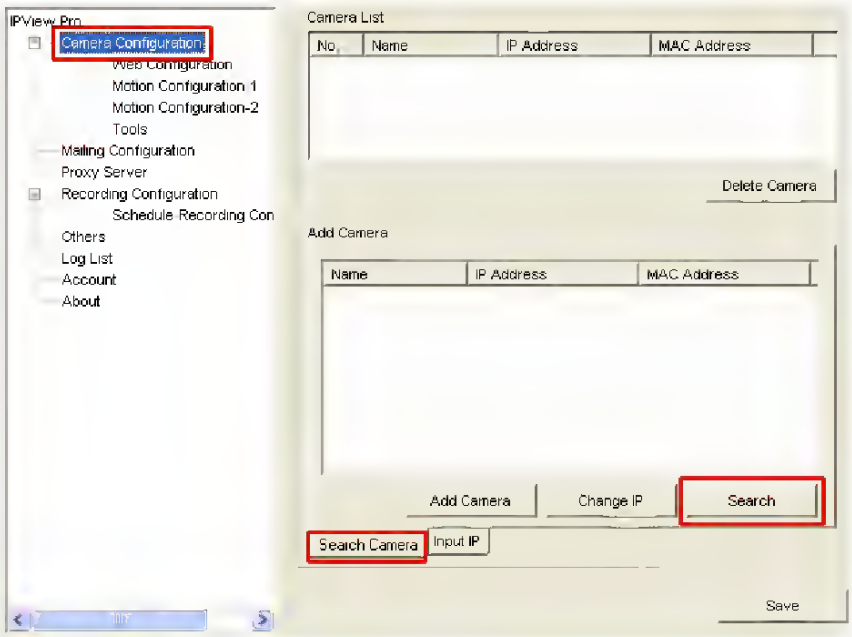
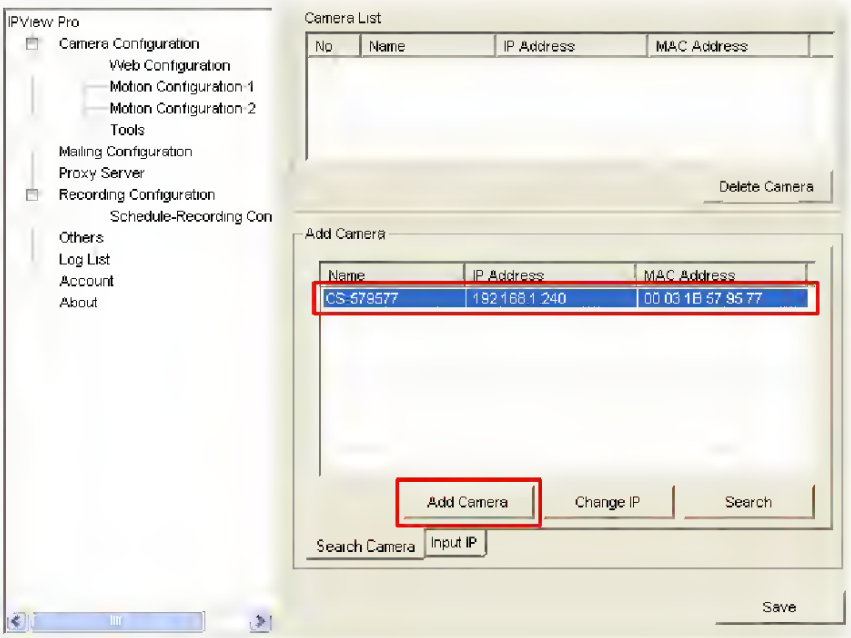
Step 3 Verify your camera is connected to your network and is powered on. Click on the **Search** button.



Step 4 Select your camera from the Add Camera list and click on **Add Camera**.



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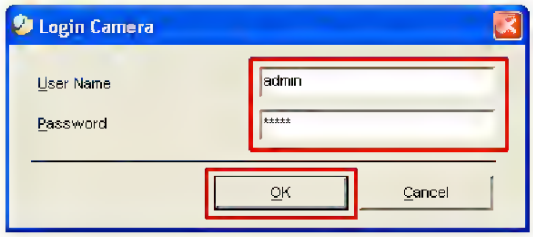
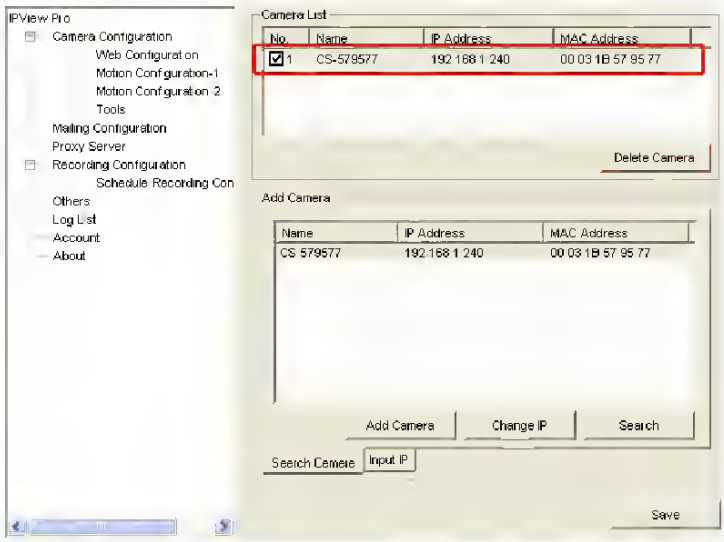
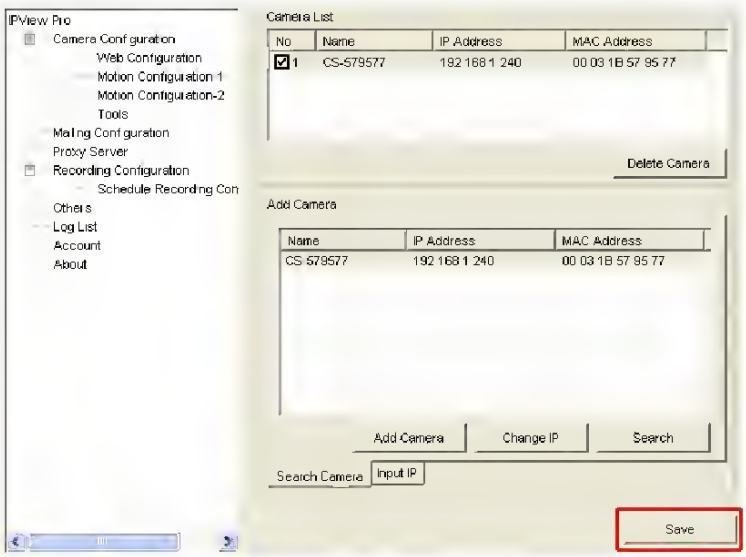
Step 5 Enter the User Name and Password for the camera. (Default is **admin** for both).



Step 6 You should see your camera added to the **Camera List**.



Step 7 Click **Save** to apply the changes.



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Step 8 Click on the **System Configuration** button to close the System Configuration Window. You should now see live images from the camera.

***Note**: If you want to add a camera located on a remote network (through the Internet), you must add the camera using the **Input IP** method described below.*

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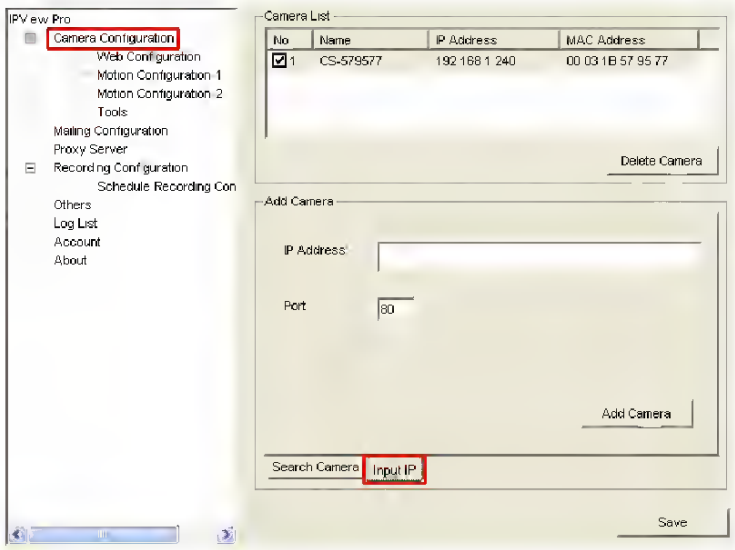
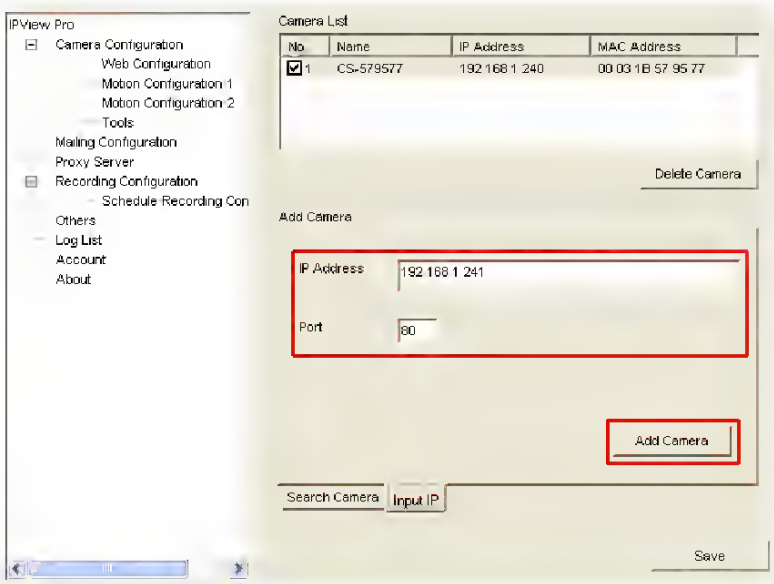
9.2.2 Adding Camera using the Input IP Method

An alternative way to add your local camera to the Camera List is to use the Input Method. If you want to add a camera located on a remote network (through the Internet), you must use this method.

Step 1 Select the **Input IP** tab.



Step 2a For local camera, enter the **local IP Address** of your camera and click **Add Camera**. Skip to **Step 3**.



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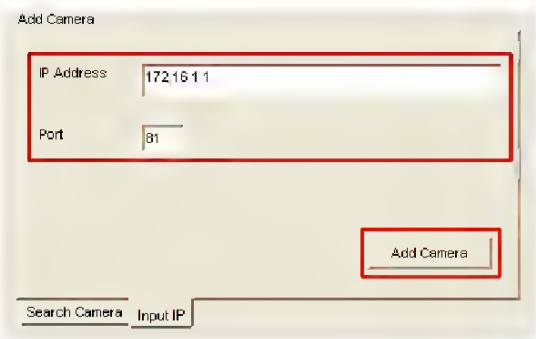
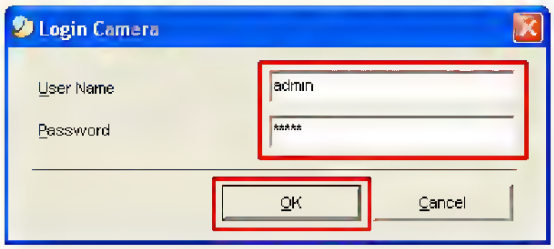
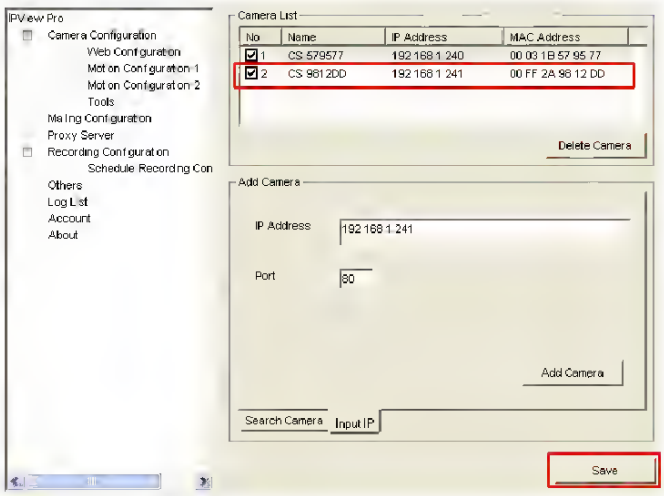
Step 2b For remote camera, enter the **Internet IP Address (WAN IP)** of the remote router and the port number of the open **HTTP Port** of the remote camera and click **Add Camera**.



Step 3 Enter the User Name and Password for the camera. (Default is **admin** for both).



Step 4 You should see your camera added to the **Camera List**.



Step 5 Click **Save** to apply the changes.

Step 6 Click on the **System Configuration** button to close the System Configuration Window.

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9.3 Using IPView Pro

This section describes the various features of IPView Pro.

9.3.1 Status Mode Window

The **Status Mode Window** displays a list of cameras that are added to IPView Pro as well as the status of each selected camera.

Select the desired camera from the list then click on the **Change Status Mode** button to view the status of the camera.

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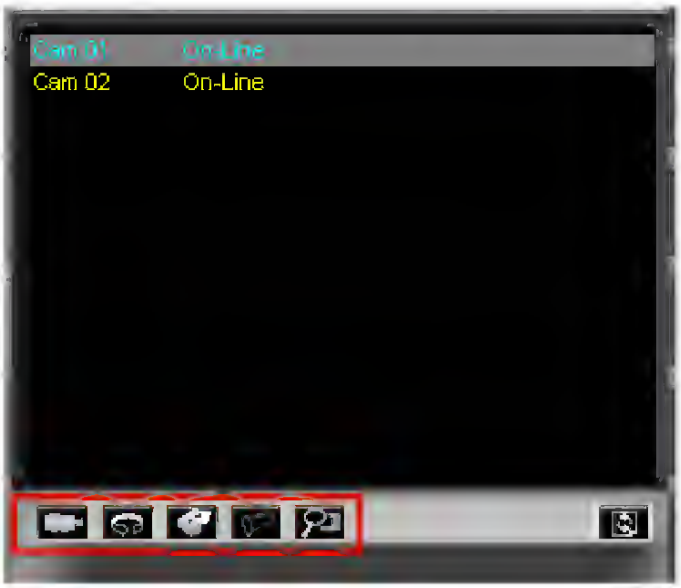
Use the **Camera Buttons** to control the camera's various functions.



From left to right:

Connect/Disconnect: Connects or disconnects the video signals from the selected camera.

Rotate Image Angle: Rotates the angle of the video.

Snapshot: Takes a snapshot image of the current video. When you click on this button, a window will appear asking you to specify the image name and the save location.

Audio: Audio On/Off.

Zoom Mode: Adjusts the zoom setting of the camera.

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9.3.2 View Window and View Mode Buttons

The **View Window** displays video from the currently selected camera.

Use the **View Mode Buttons** to select the desired viewing mode.

From left to right:

Up/Down Arrows: If you have more than one camera in your network, you can use the **Up/Down Arrow Buttons** to view the videos from each camera.

View Modes: Select the desired view mode. The view window can display up to 16 cameras simultaneously.

Full-Screen Mode: Displays the video in full-screen.

Scan Mode: Scans through each camera at a set interval (in seconds).

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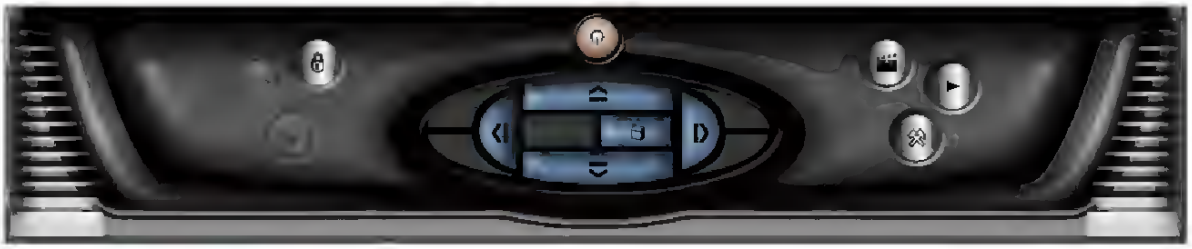
9.3.3 Control Panel

The **Control Panel** contains essential buttons for operating IPView Pro.



Key Lock: The **Key Lock** button locks all the buttons on the IPView Pro for security purposes. If you have enabled a password login for IPView Pro, you'll need to input the same password to unlock the key lock.

Power: Click on the **Power** button and select to **Exit** or **Minimize** IPView Pro.

Record: Click on the **Record** button and select **Manual Record** to record the video immediately to your hard drive. If you select **Schedule Record** or **Motion Record**, the camera will record the videos according to the corresponding settings in **System Configuration**. To stop recording, click on the **Record** button and select **Manual Record** again.

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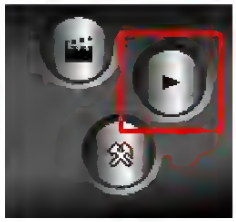
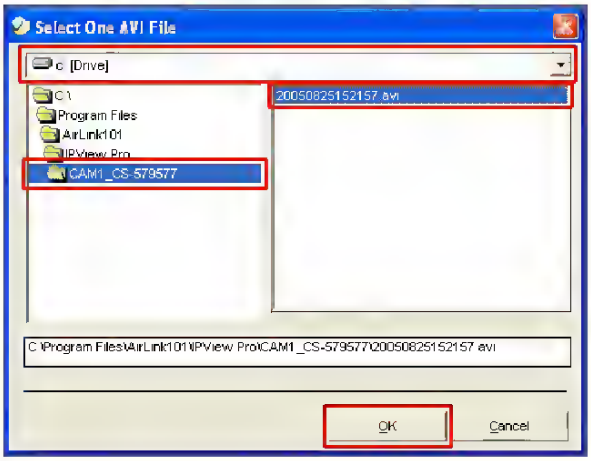
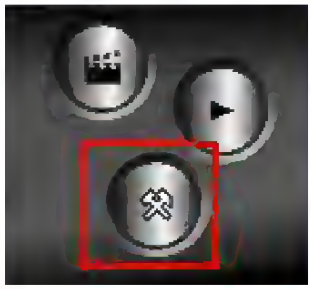


Play: Click on the **Play** button to playback the recorded videos from your hard drive.

A window will appear asking you for the location of the recorded video. Select the desired video and click **OK** to begin playback.





System Configuration: Click on the **System Configuration Button** to open the **System Configuration Window**.

Arrow Buttons: Click on the arrow buttons to change the position of the camera lens. The home button returns the lens to the home position.

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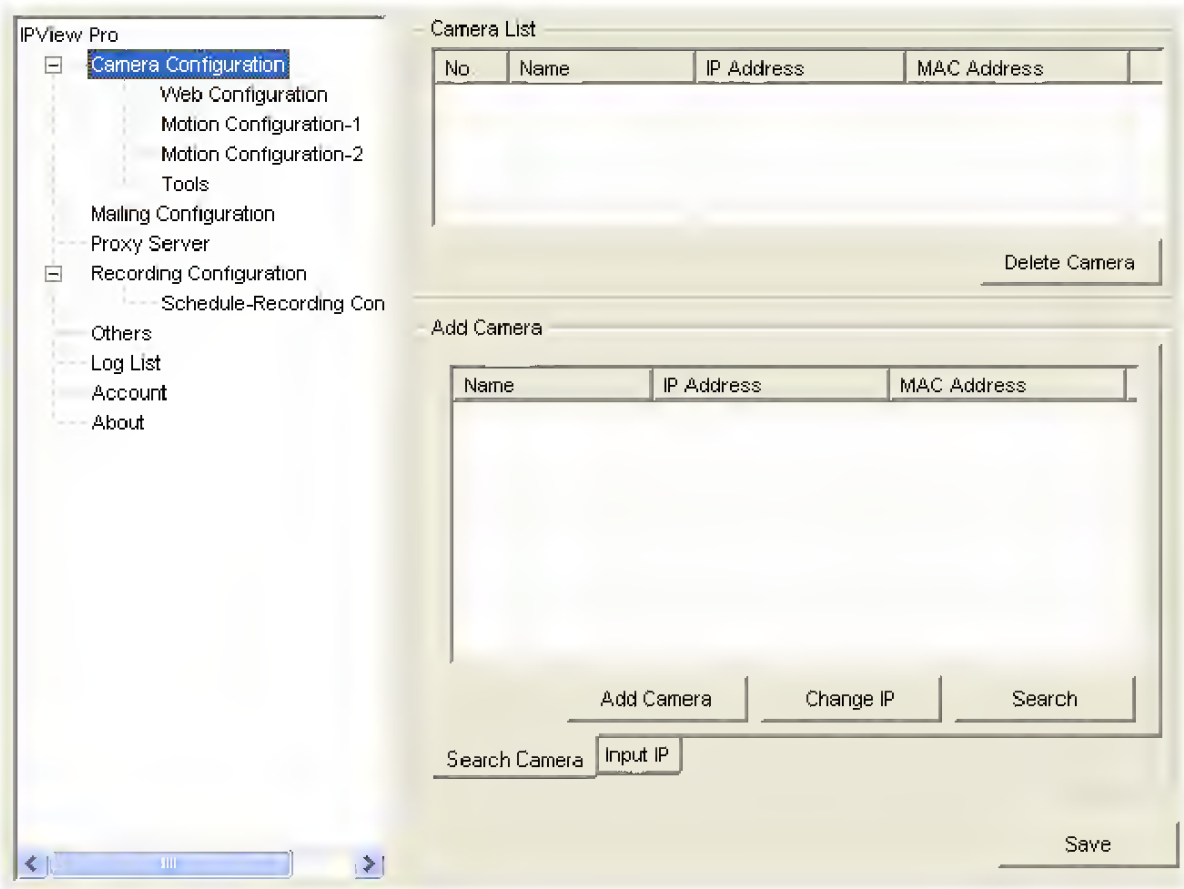
9.4 System Configuration

The **System Configuration Window** is where you configure the settings of IPView Pro and all the cameras that are added to the **Camera List**.

The **Camera Configuration** page allows you to add the cameras in your network to IPView Pro's **Camera List**. For instructions on how to do add your cameras, please refer to ***Section 9.2.1 Adding Camera Using the Search Method***.



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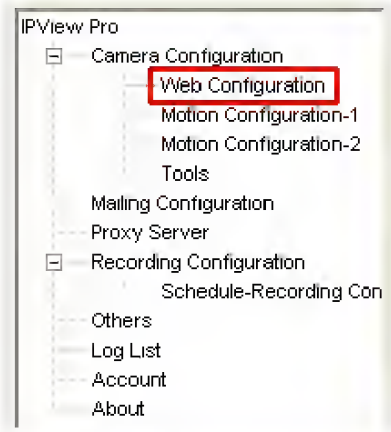
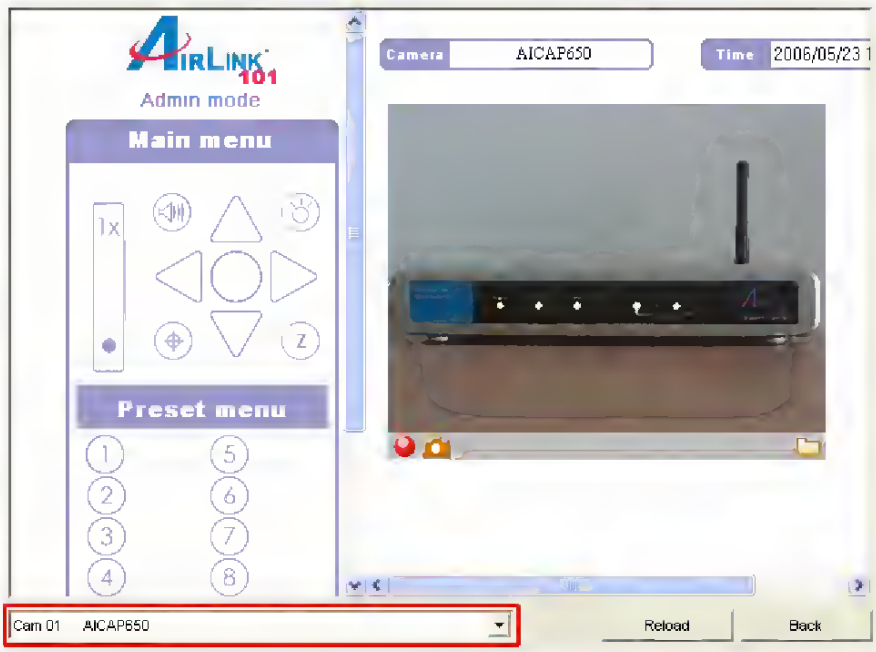
9.4.1 Web Configuration

The **Web Configuration** page allows you to access the **Web Configuration Utility** of the selected camera.





If you have more than one camera, you can use the drop-down menu to select the desired camera.

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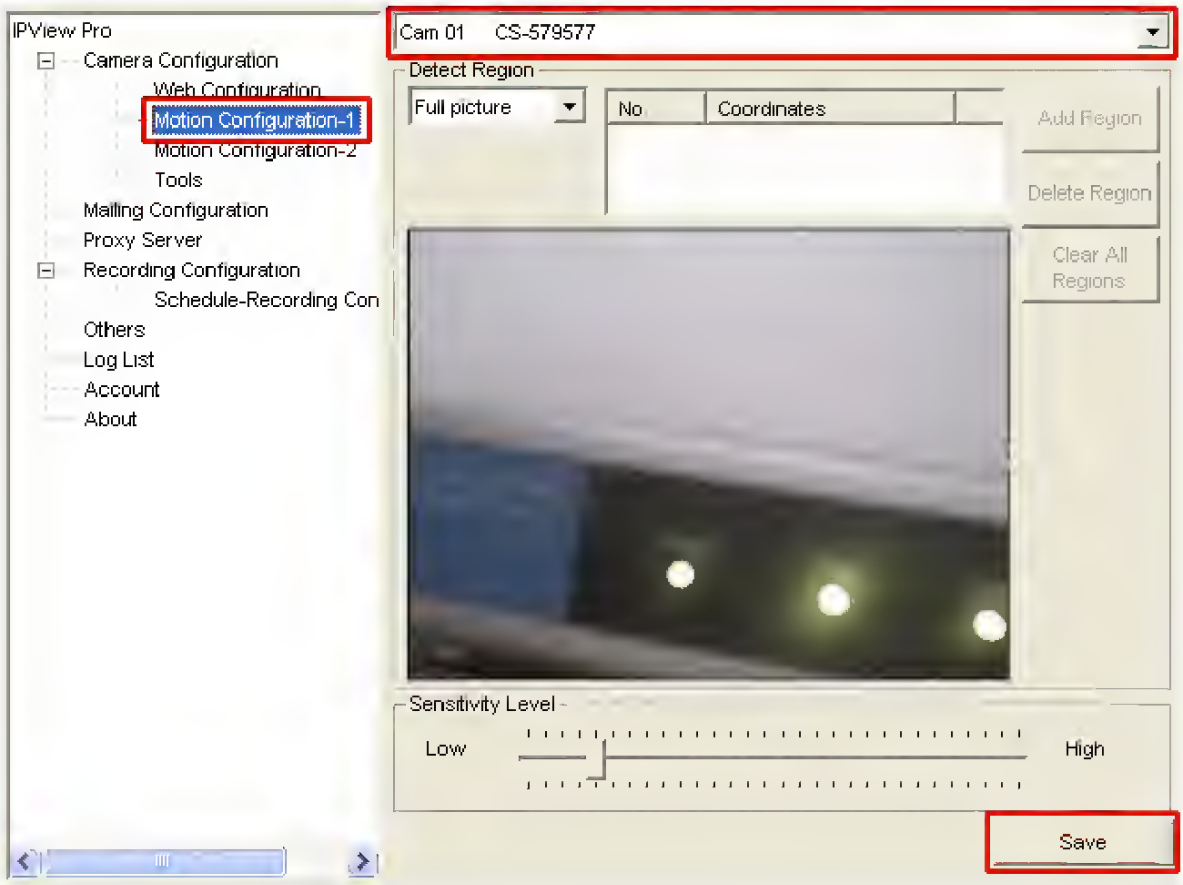
9.4.2 Motion Configuration-1

The **Motion Configuration-1** page allows you to set the **Motion Detection** settings.



Select the desired camera from the drop-down menu.

Detect Region: When you select **Full picture**, the camera will monitor the entire screen.

Sensitivity Level: Adjust the slide bar to set the sensitivity level of the motion detection. Once motion is detected, recording will begin if you have enabled **Motion Record** from the **Record Button**.

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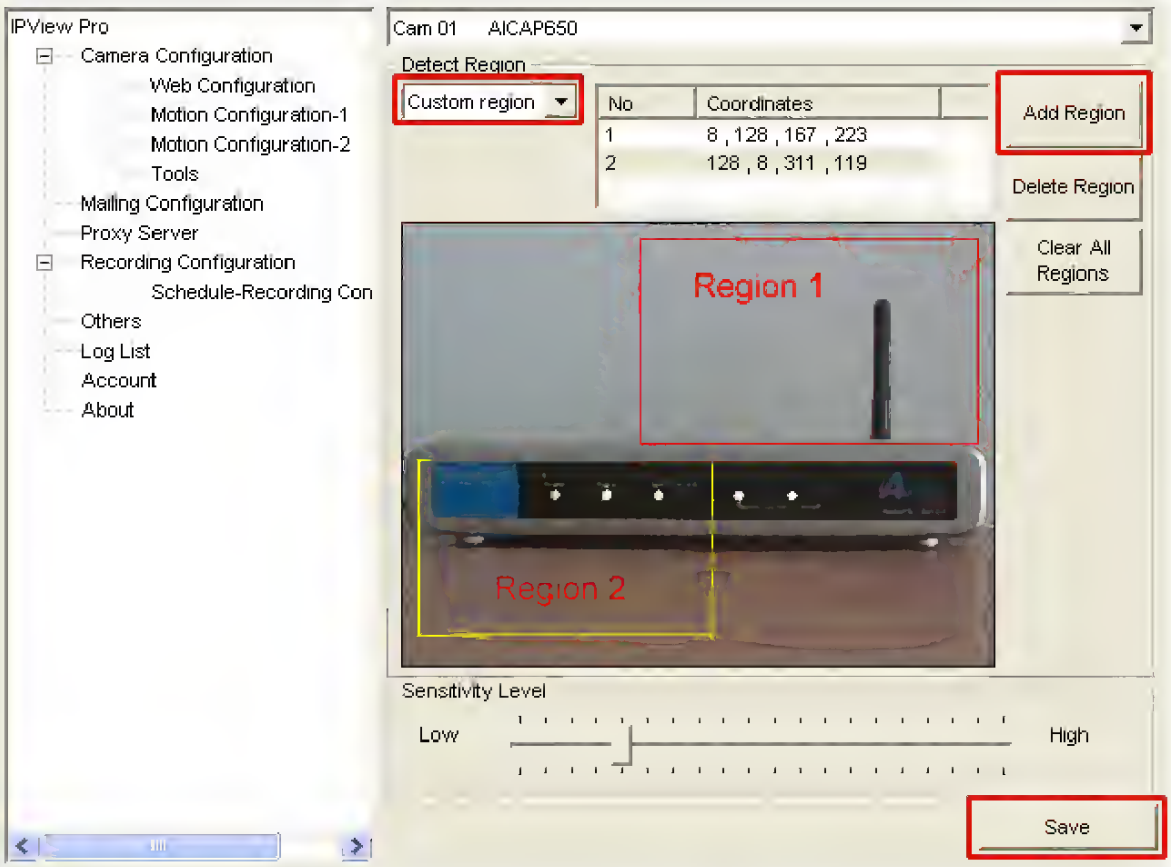
Custom Region: Custom region sets the motion detection to focus on designated areas of the screen. Click **Add Region** and then use the mouse to draw an area in the viewing screen. When motion is detected within the specified area, the camera starts to record automatically. You can set multiple areas in the viewing screen. Click **Delete Region** to remove the area selected. Click **Clear All Region** to remove all areas in the viewing screen.



Click **Save** to apply the changes.

At the **Record Button**, select **Motion Record**.

Recording will begin when motion is detected.

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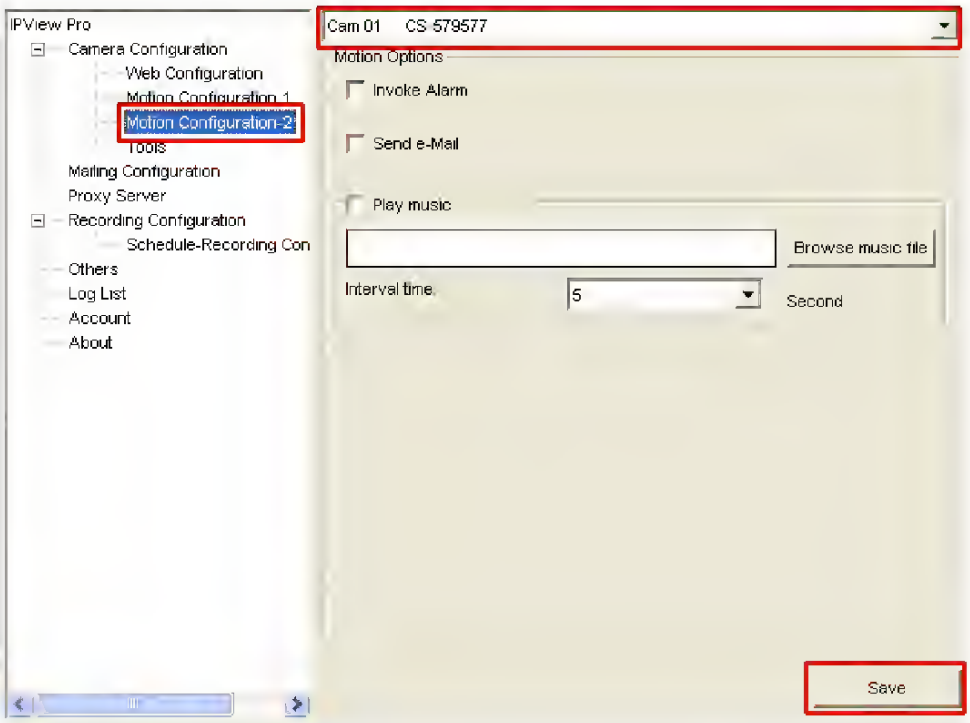
9.4.3 Motion Configuration-2

The **Motion Configuration-2** page allows you to set the desired action when motion is detected.



Select the desired camera from the drop-down menu.

Motion Options:

Check on each box to enable the desired action when motion is detected.

Invoke Alarm: A notice will appear in the **Status Mode Window** when motion is detected.

Send e-Mail: An e-mail will be sent to the recipient specified in the **Mail Configuration** page.

Play music: A music file will be played. Click on the **Browse music file** button to select the file.

Interval time: Select the time interval (in seconds) between each playback of the music.

Click **Save** to apply the changes.

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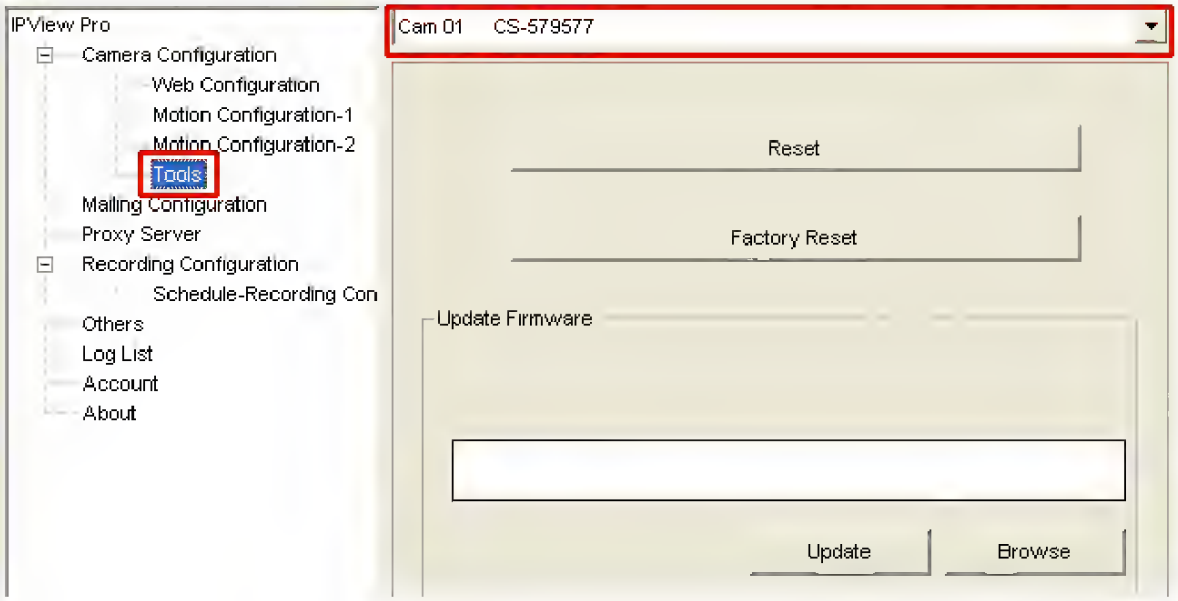
9.4.4 Tools

The **Tools** page allows you to perform various administrative functions on the selected camera.



Select the desired camera from the drop-down menu.

Reset: Click on the **Reset** button to reset the selected camera.

Factory Reset: Click on the **Factory Reset** button to reset the camera and return all of the camera's settings to factory default.

Update Firmware:

Click on **Browse** to locate the new firmware and click **Update** to update the camera's firmware.

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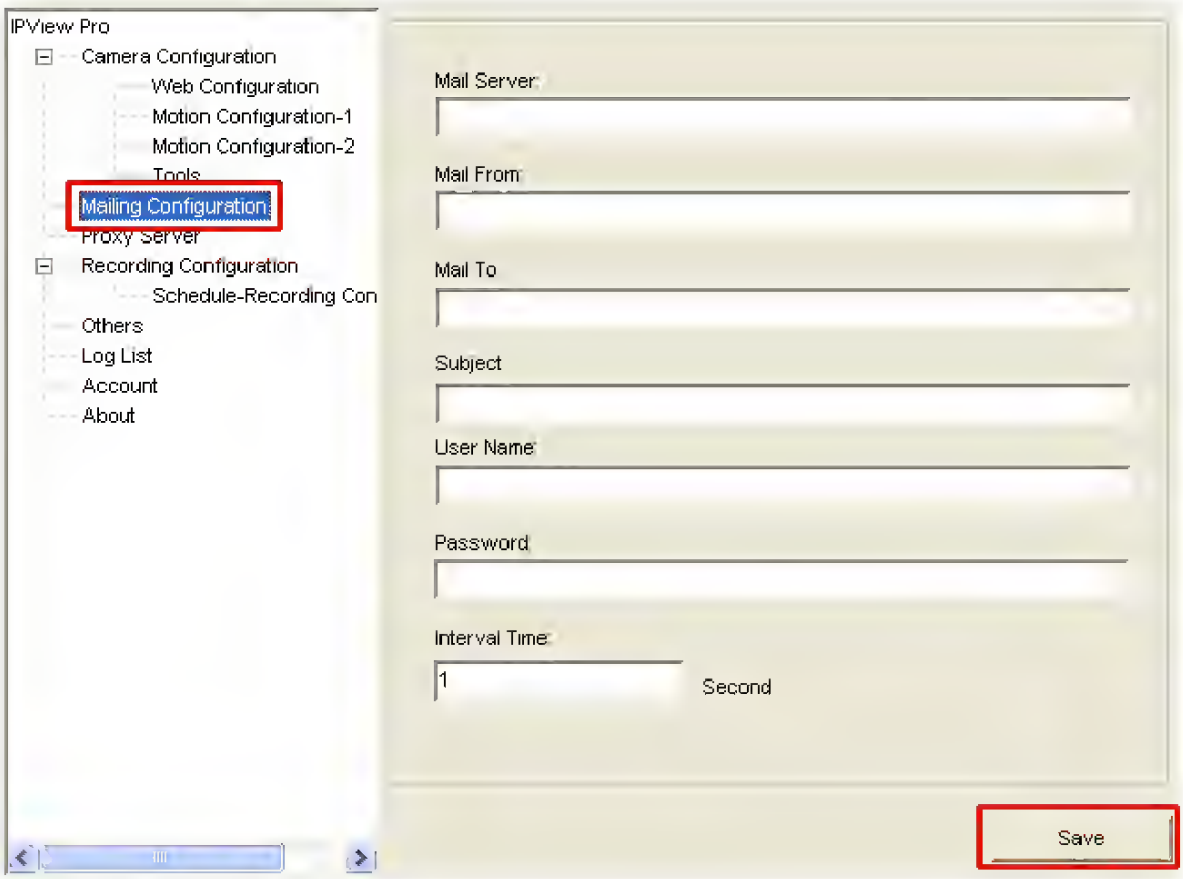
9.5 Mail Configuration

The **Mail Configuration** page allows you to specify the recipient of the E-mail alert when motion is detected and the **Send e-Mail** option is selected.



Mail Server: Enter the IP Address of the Mail Server that is used to send your e-mail.

Mail From: Enter the sender's e-mail address.

Mail To: Enter the recipient's e-mail address.

Subject: Enter the title of the e-mail.

User Name: Enter the user name for logging into the Mail Server.

Password: Enter the password for logging into the Mail Server.

Interval Time: Enter the time interval (in seconds) to send e-mail regularly.

Click **Save** to apply the changes.

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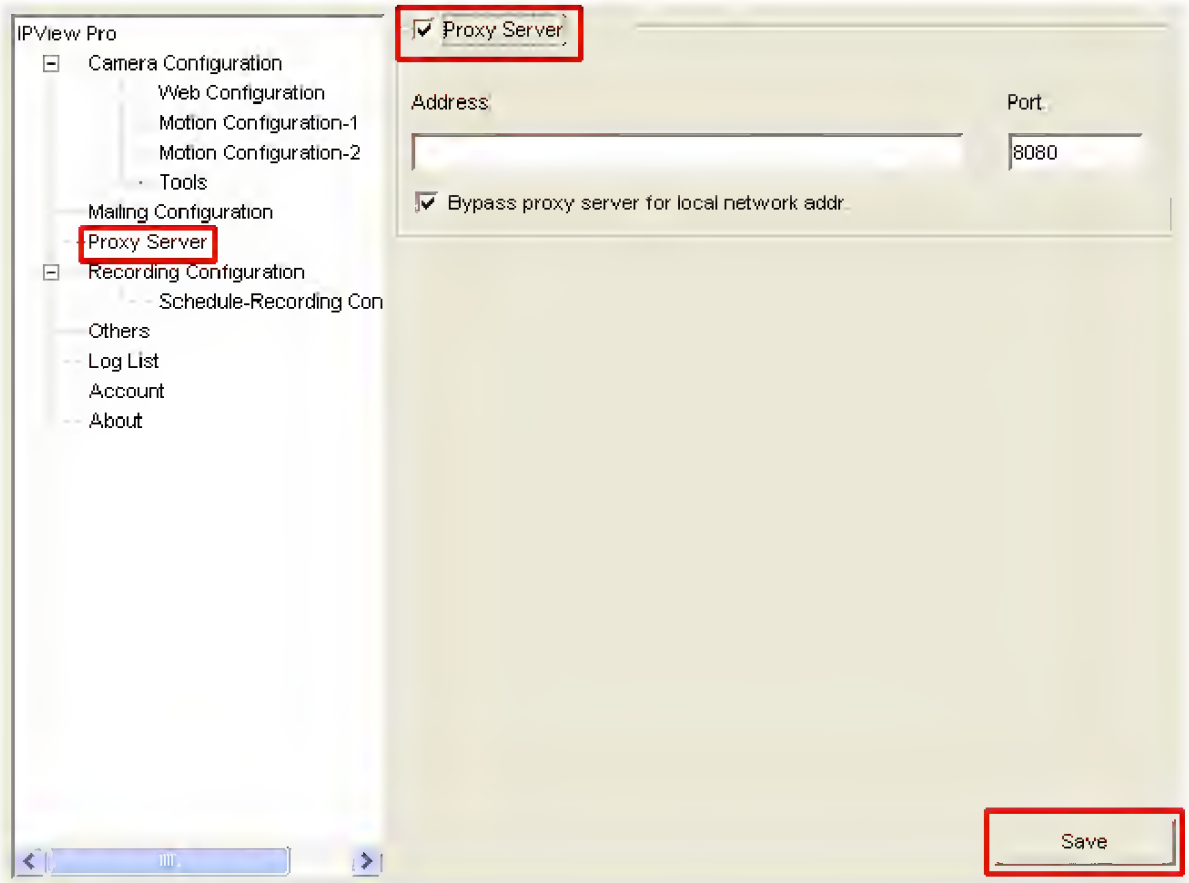
9.6 Proxy Server

The **Proxy Server** page allows you to specify the use of a proxy server.



Proxy Server: Check on this box to enable the use of a proxy server.

Address: Enter the IP Address of the desired proxy server.

Port: Enter the port number for the proxy server.

Bypass proxy server for local network address: Check on this box to bypass the proxy server for local network address.

Click **Save** to apply the changes.

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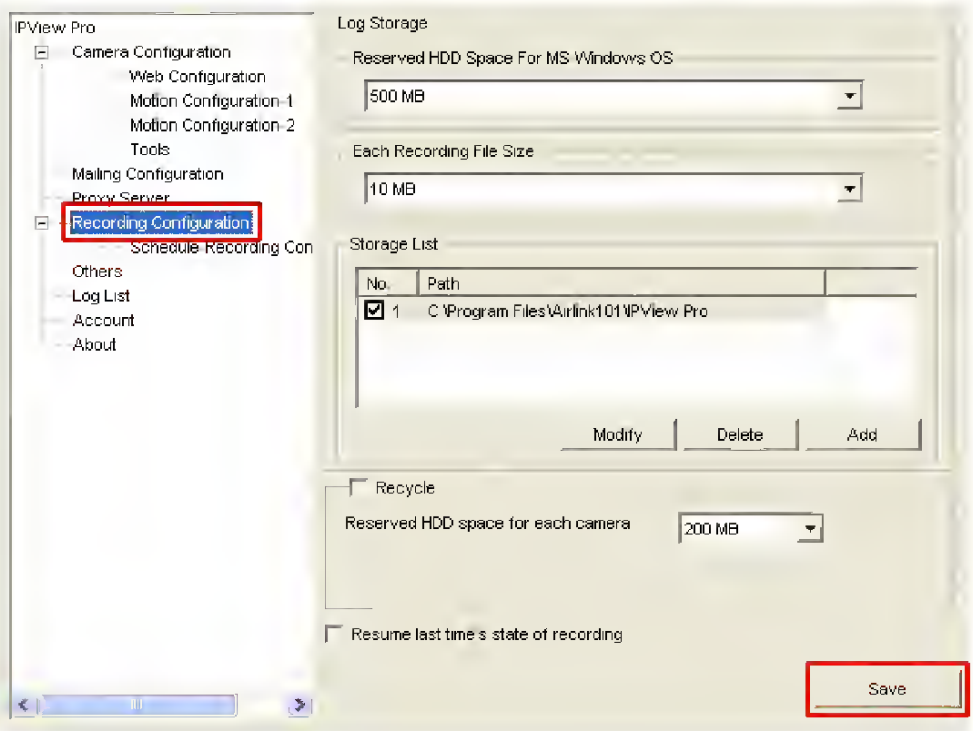
9.7 Recording Configuration

The **Recording Configuration** page allows you to set the recording's storage settings.



Reserved HDD Space for MS-Windows OS: Use this drop-down menu to select the size of the hard drive space you want to reserve for your Windows operating system. **(500 MB – 1000 MB).**

Each Recording File Size: Use this drop-down menu to select the maximum size allowed for each recorded video. When a video reaches the maximum limit, a new file will be created. **(10 MB – 50 MB).**

Storage List: Use the **Add**, **Modify**, **Delete** buttons to add, modify, and delete individual storage paths. The storage path indicates where the recorded videos will be saved.

Recycle: Check this box to clear the recorded files when the specified **Reserved HDD space for each camera** is filled. **(200 MB – 50000 MB).**

Resume last time's state of recording: Check this box to resume the same state of recording as the previous time.

Click **Save** to apply the changes.

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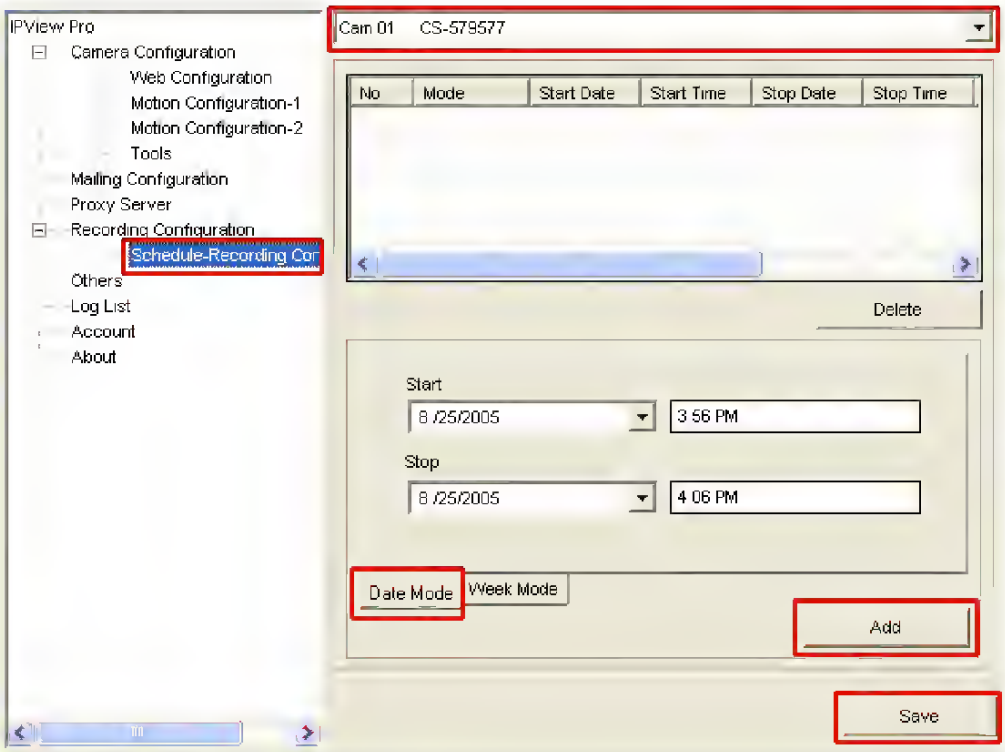
9.7.1 Schedule-Recording Configuration

The Schedule-Recording Configuration page allows you to setup automated recording at the scheduled time.

Date Mode



Select the desired camera from the drop-down menu.

Specify the **Start Date/Time** and the **Stop Date/Time** and click **Add**.

Click **Save** to apply the changes.

At the **Record Button**, select **Schedule Record**.

Recording will begin at the scheduled time.

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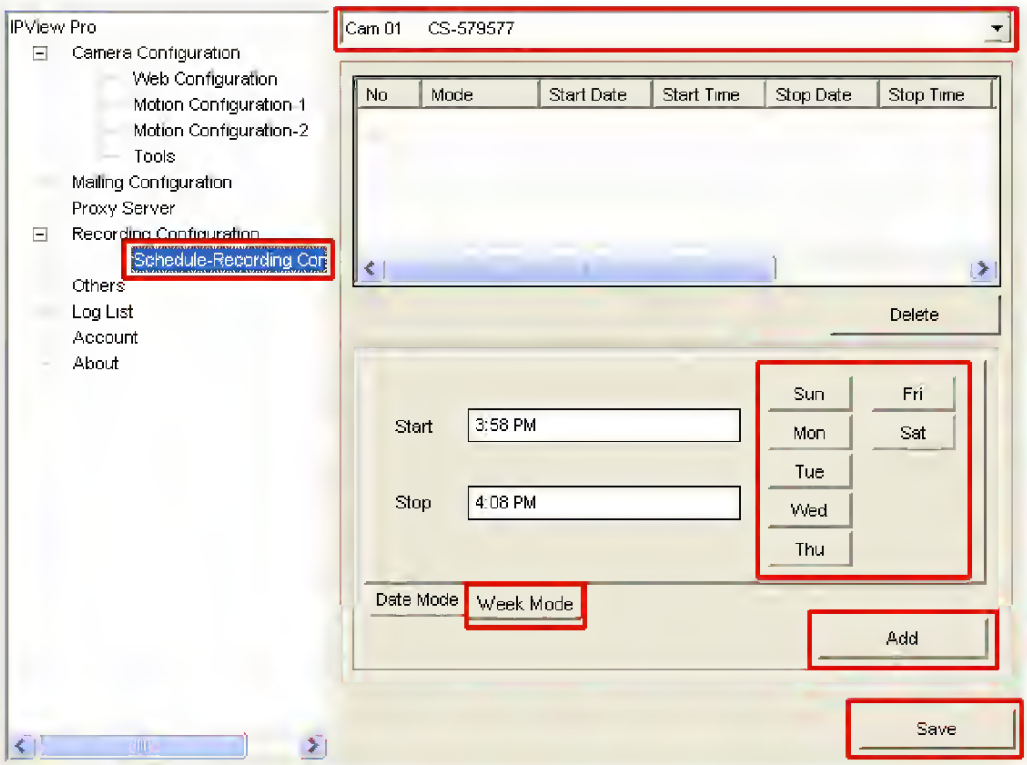
Week Mode



Select the desired camera from the drop-down menu.

Specify the **Start** and **Stop** time for each week and click on the **Days** of the week that you want to record and click **Add**.

Click **Save** to apply the changes.

At the **Record Button**, select **Schedule Record**.

Recording will begin at the scheduled time.

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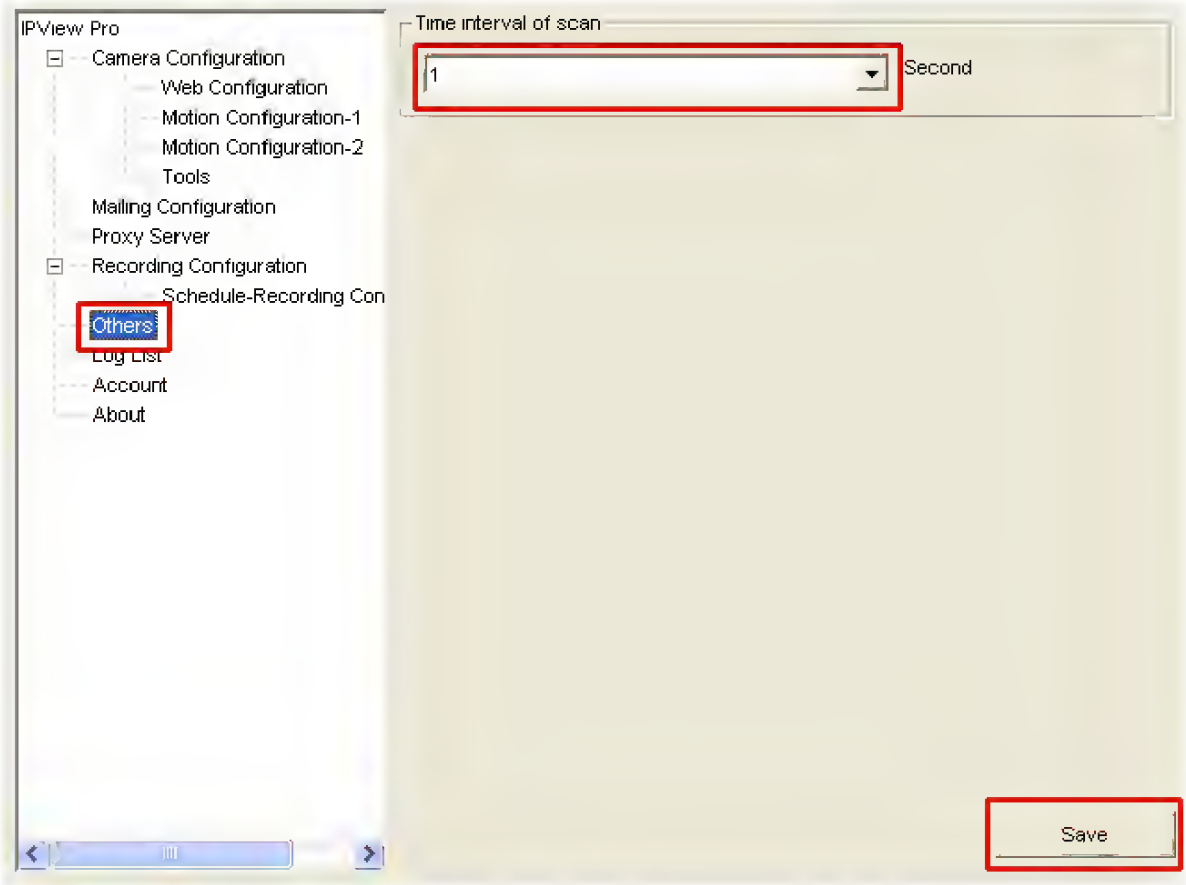
9.8 Others

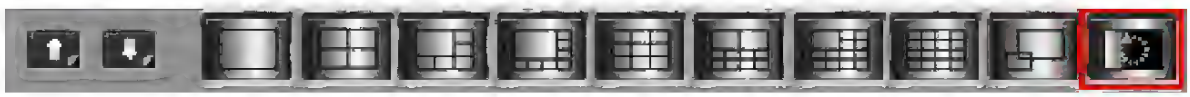
The **Others** page allows you to set the time interval to scan through each camera in your network.



Use the drop-down menu to select the time interval (in seconds) for each scan.

Click **Save** to apply the changes.

Click on the **Scan Mode** button to begin scanning.



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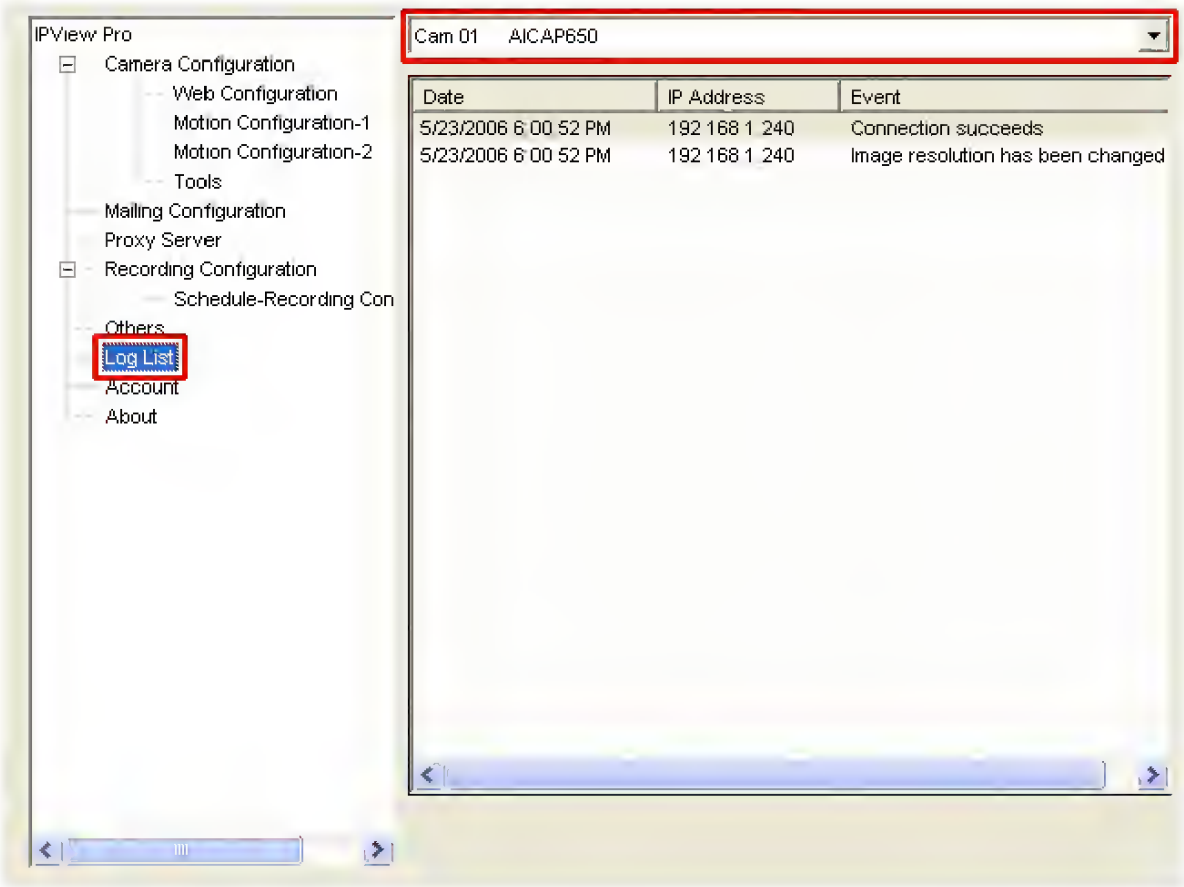
9.9 Log List

The **Log List** page displays the log of the selected camera.



Select the desired camera from the drop-down menu to display its log.

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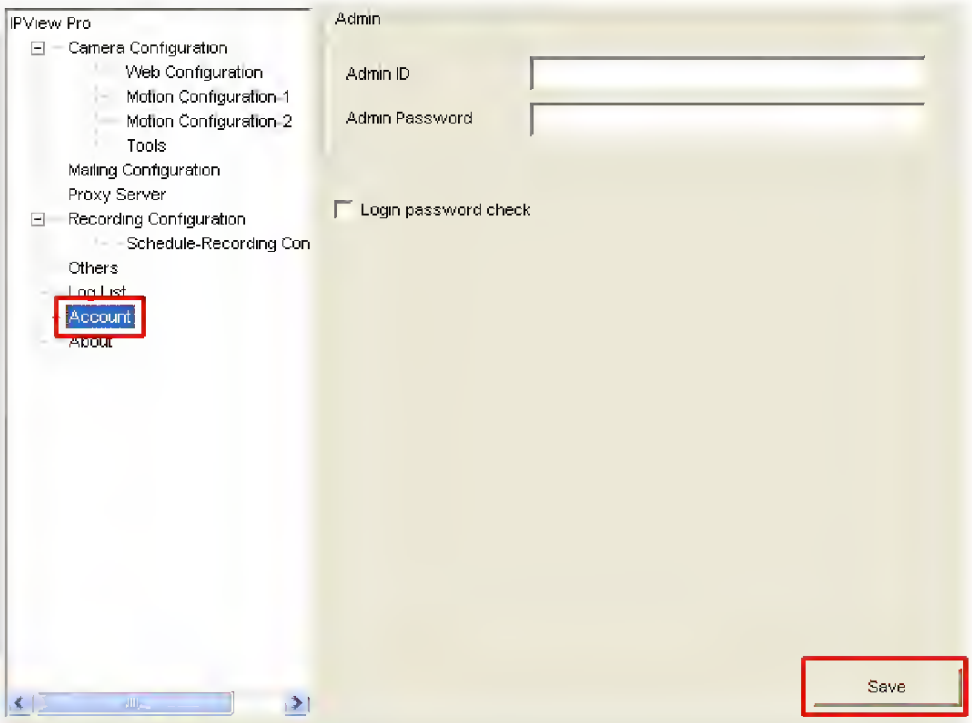
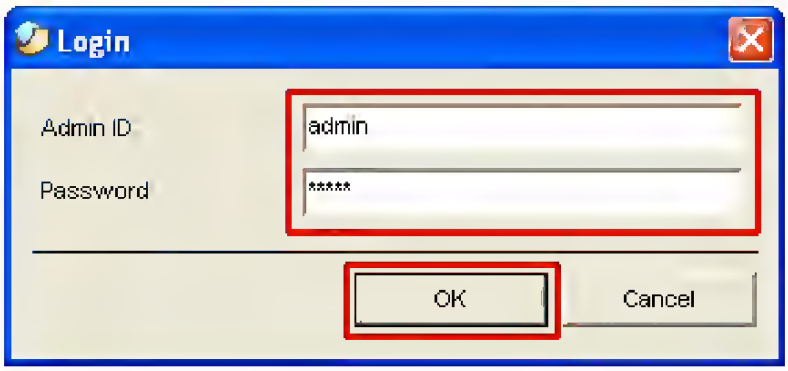
9.10 Account

The **Account** page allows you to setup a user name and password to log in to IPView Pro.



Enter the desired **Admin ID** and **Password**.

Login password check: Check this box to enable the login prompt when you start IPView Pro and when you unlock the **Key Lock** button.



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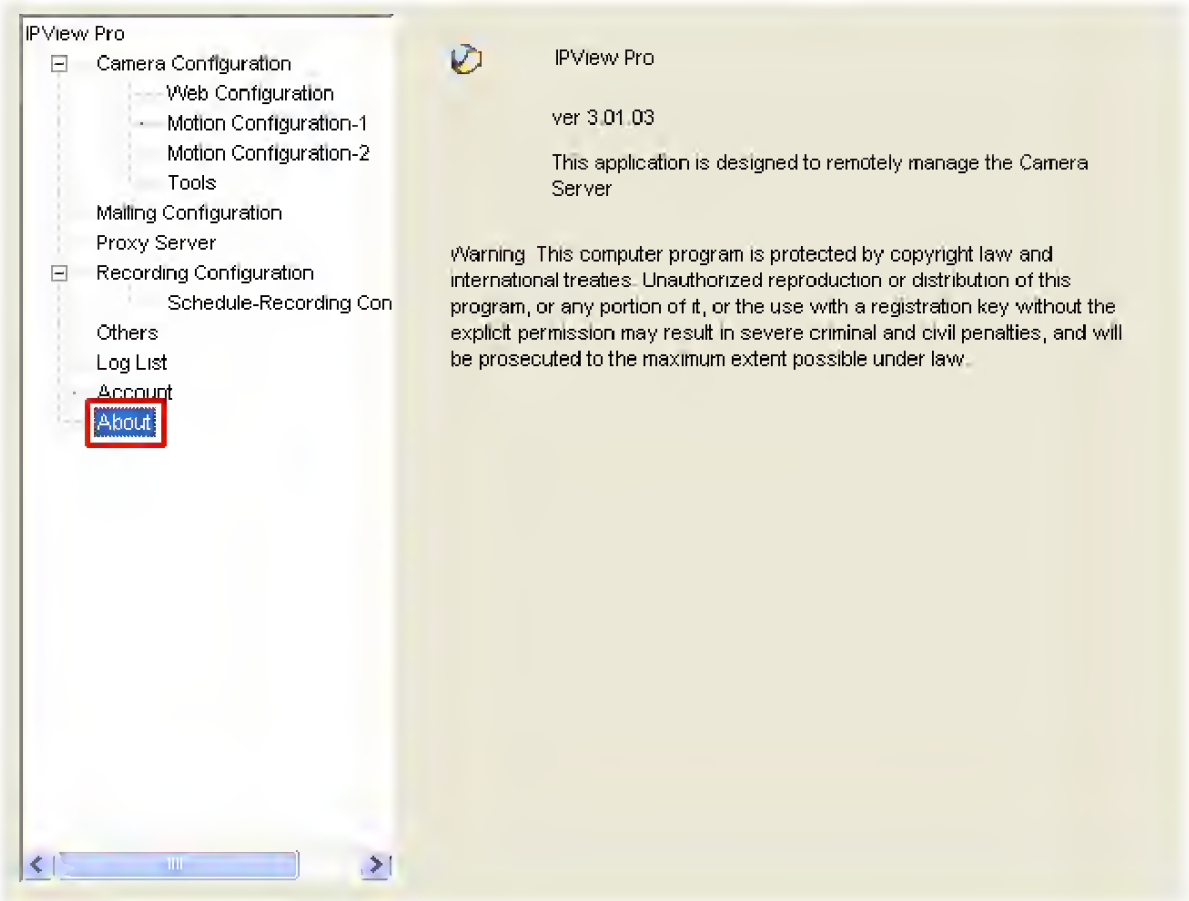
9.11 About

The **About** page provides the version number of IPView Pro.


IPView Pro
Camera Configuration
Web Configuration
Motion Configuration-1
Motion Configuration-2
Tools
Mailing Configuration
Proxy Server
Recording Configuration
Schedule-Recording Con
Others
Log List
Account
About
IPView Pro
ver 3.01.03
This application is designed to remotely manage the Camera Server
Warning This computer program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, or the use with a registration key without the explicit permission may result in severe criminal and civil penalties, and will be prosecuted to the maximum extent possible under law.

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Frequently Asked Questions

Network Camera Features

Q: What is a Network Camera?

A network camera is a standalone camera connected directly to an Ethernet or Fast Ethernet network. It differs from a conventional PC camera in that it is an all-in-one system with built-in CPU and web-based configuration utility. It provides high-quality video images for monitoring while maintaining as a low cost solution. The camera can be managed remotely and is accessible from any PC/Notebook over the Intranet or Internet via a web browser.

Q: What algorithm is used to compress the digital image?

The camera utilizes the JPEG image compression technology, providing high quality images for users. JPEG is adopted since it is a standard for image compression and can be applied to various web browser and application software without the need to install extra software.

Network Camera Installation

Q: Can the Network Camera be used outdoors?

The camera is not weatherproof. It needs to be equipped with a weatherproof case to be used outdoors and is not recommended.

Q: What network cabling is required for the camera?

The camera uses Category 5 UTP cable allowing 10 Base-T and 100 Base-T networking.

Q: Can the camera be setup as a PC-cam on the computer?

No, the camera is an Network Camera used only on Ethernet and Fast Ethernet network.

Q: Can the camera be connected on the network if it consists of only private IP addresses?

The camera can be connected to LAN with private IP addresses.

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Troubleshooting

Q: I cannot access the camera from a web browser.

A1: The possible cause might be the IP Address for the camera is already being used by another device. Please verify that no other device is using the camera's IP address. If there is an IP address conflict, you'll need to change one of the device's IP address.

A2: Another possible reason is the camera's IP Address is located on a different subnet. To fix the problem, run the camera's Setup Wizard and it will recommend a new IP address for the camera that is on the same subnet as your current network.

A3: Another possible problem might be due to the network cable. Try a different network cable.

Q: Why does the camera work locally but not externally?

A1: If the camera is behind a router, you'll need to configure the router to open up the appropriate port and port-forwarding settings. See ***Section 8 Viewing Videos from External Network*** for details.

Q: Why does a series of broad vertical white lines appear throughout the image?

A: A likely issue is that the CMOS sensor is overloaded when the light source is too bright, such as direct exposure to sunlight or halogen light. You need to reposition the camera to a more shaded area immediately as this will damage the CMOS sensor.

Q: There is bad focus on the camera, what should be done?

A: You can adjust the camera's focus manually by turning the lens clockwise or counter-clockwise.

Q: How can I fix noisy images?

A: The video images might be noisy if the camera is in a very dim environment. To solve this issue try using the flash LED.

Q: There is poor image quality, how can I improve the image?

A1: A probable cause might be the incorrect display settings for your monitor. You need configure your desktop's display property to show at least 65,000 colors and at least 16-bit color quality. Applying only 16 or 256 colors on your computer will produce dithering artifacts in the image.

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A2: The configuration for the camera image display is incorrect. Through the Web Configuration Utility, you can adjust the display parameters such as brightness, contrast, hue, and light frequency.

Q: There are no images available through the web browser?

A: The ActiveX might be disabled. If you are viewing the images through Internet Explorer, make sure ActiveX has been enabled in the Internet Options menu. See ***Section 6 Enabling and Installing ActiveX*** for details. If your web browser does not support ActiveX, you can use the bundled IPView Pro software instead.

Specification

Image Sensor
Sensor Type: Color CMOS sensor
Sensor Resolution: 640 x 480 pixels
Lens: f: 6.0 mm, F: 1.8

Video
Image Compression: MJPEG
Image Frame Rate: 30fps @ QCIF, 30fps @ CIF, 20fps @ VGA,
Quality Level: Low/Middle/High
Video Resolution: 176x144, 320x240, 640x480
Auto White Balance: Yes
Auto Exposure Control: Yes
Auto Gain Control: Yes
Digital Zoom: Yes
Vertical/Horizontal Reversal: Yes

Audio
Input: Built-in Omni-directional MIC; frequency @ 50~ 16000Hz;
Sensitivity @ -42dB +/- 3dB
Compression: PCM

Hardware
CPU: ADMtek 5120
RAM: 32MB
Flash ROM: 4MB
OS: Linux
PIR Sensor: Sensor distance @ 5 m (max.); Area @ X: +/- 15°, Y: +/- 15 °
Buzzer: Internal alarm buzzer
USB Port: Standard USB TypeA connector, USB 2.0/1.1 support
Pan/Tilt Function: Pan @ +120° ~ -180° (-120° ~ -180° area is for Privacy mode);
Tilt @ +45° ~ -5°
LED: One bi-color Access LED (green/orange); One bi-color Status LED (green/red)

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Communication
LAN Port: RJ-45, 10/100M auto-sensed, Auto MDI-X
Communication Protocol: HTTP, FTP, TCP/IP, UDP, ARP, ICMP, DHCP, POP3, SMTP, PPPoE, DDNS, UPnP

Power
Power Supply: DC 5V 2.5A, switching type
Power Consumption: 7.5W @ 1500mA/5V (max.)

Environment
Operating Temperature: 0℃ ~ 40℃
Operating Humidity: 20% ~ 85%, non-condensing
Storage Temperature: -10℃ ~ 60℃
Storage Humidity: 0% ~ 90%, non-condensing

EMI
FCC, CE Class B

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Technical Support

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Web Site: www.airlink101.com

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